



January 14, 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

**Re: 2020 Groundwater Monitoring Report
Glenn Springs Holdings, Inc.
E.C. Hill "A, B and C" Tank Battery
Section 27, Township 23 South, Range 37 East
Lea County, New Mexico
1RP-440 and 1RP-462**

Mr. Rose-Coss,

This report summarizes the results of the semi-annual sampling events that occurred in 2020 for the E. C. Hill A, B and C Tank Battery (Site). The Site is located in Lea County, Section 27, Township 23 South, Range 37 East, approximately 11 miles south of Eunice, New Mexico. The GPS coordinates for the Site are 32.272283°N, 103.151018°W. Prior to being operated by OXY, the facility was operated by Plains Exploration and Production, Pogo Producing Company (Pogo) and Chevron Mid-Continent. The Site location is shown on **Figures 1 and 2**.

FACILITY BACKGROUND

This facility is a historic tank battery, which accumulated numerous spills from previous operators. Prior to being operated by OXY, the facility was operated by Plains Exploration and Production, Pogo Producing Company (Pogo) and Chevron Mid-Continent. During Pogo's operation of this facility, several documented spills occurred at the facility. The majority of the spills occurred around production equipment and active underground lines. Pogo had proposed deferring all major cleanup activities on the inaccessible areas of the tank battery until the tank battery was abandoned.

In November 2003, Pogo decided to shut down all production to the tank battery and removed all tanks, vessels, equipment and lines in order to make the former tank battery location accessible to perform further assessment. Once the facility was dismantled, the impacted soils were excavated in the areas of the tanks, vessels and lines. In February 2004, fifteen test trenches were excavated to a depth of 5 feet below ground surface (bgs) throughout the former tank battery location to delineate the extent of impacted soils. The trenches were found to be impacted with elevated levels of Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Chlorides. Based on the results of the trenching, it was decided that soil borings would be required to complete the delineation at the site.

Between May and August 2005, thirteen boreholes were installed throughout the former tank battery area. The soil laboratory results indicated the Site was impacted to groundwater with elevated levels of TPH, BTEX and chlorides. It was evident from the

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boreholes and excavations performed at the site that there was very little lateral migration of hydrocarbons in subsurface soils and the impact was defined. In order to prevent leaching of the surrounding soils to groundwater, a 40-mil thick plastic liner (CAP) was installed in the excavation measuring 100' by 180'. The liner was installed to a depth of 3.5 feet bgs with the impacted excavated soils placed beneath the liner to prevent leaching. Once placed in the ground, the liner was backfilled, and the excavation brought up to grade with clean soils.

Between September 2004 and July 2006, Pogo installed five monitor wells (MW-1 through MW-5) to assess the groundwater impacts to the Site. Monitor well MW-1 was installed immediately south of the excavation, while monitor wells MW-2 and MW-3 were installed north of the excavation. Monitor wells MW-4 and MW-5 were installed to the east and southeast of the excavation. Phase separated hydrocarbons (PSH) were measured in monitor well MW-1, while dissolved phase hydrocarbons were detected in monitor wells MW-3, MW-4 and MW-5 at concentrations below the New Mexico Water Quality Control Commission (NMWQCC) standards.

Between May 2, 2011 and May 11, 2011, OXY installed two recovery wells (RW-1 and RW-2) for PSH recovery. Recovery well RW-1 was installed just north of monitor well MW-1, whereas recovery well RW-2 was installed just southwest of monitor well MW-3. PSH were measured in both recovery well RW-1 and recovery well RW-2.

On September 29, 2015, one permanent monitor well (MW-6) was installed to the northeast and one temporary monitor well (TMW-7) was installed to the southwest of the Site. Temporary monitor well TMW-7 was plugged and abandoned on March 2, 2016. The locations of all monitor and recovery wells are depicted on **Figure 3**.

RECOVERY SYSTEM OPERATIONS AND MAINTENANCE

During 2014, QED™ skimmer pumps were installed in monitor wells MW-1 and RW-2 and a Xitech skimmer pump was installed in recovery well RW-1 for the recovery of PSH. During 2020, the pumps operated in wells MW-1, RW-1, and RW-2. The skimmer pumps operate with solar recharged battery power and a nitrogen bottle. The PSH from each well was pumped into drums inside secondary containment where it is periodically removed for offsite disposal. System schematics are included in **Appendix A**. An estimated volume of 191.5 gallons of phase separated product (PSH) was recovered during 2020, bringing the estimated total volume of PSH recovered since the system started in 2014 to 1,198.5 gallons.

GAUGING AND MONITOR WELL SAMPLING

In 2020, Tetra Tech Inc. personnel were onsite to gauge monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, RW-1, and RW-2 on a semi-annual basis. All of the wells on site were gauged with an electronic interface probe to the nearest 0.01 foot. The gauging data is summarized in **Table 1**. During all of the 2020 sampling events, PSH were measured in two monitor wells (MW-1 and MW-3) and in both recovery wells (RW-1 and RW-2). The range of PSH thickness measured during the 2020 sampling events were as follows: (MW-1), 0.89 – 2.10 feet; (MW-3), 0.39 – 2.65 feet; (RW-1), 1.01 – 2.67 feet and (RW-2), 0.09 – 1.06 feet. Utilizing the water level elevation calculations, groundwater gradient maps were generated for the February 19, 2020 and August 12, 2020 sampling events. The groundwater gradient in 2020 was to the southeast which is consistent with previous



years. Groundwater gradient maps for the two 2020 sampling events are included as **Figure 4** and **Figure 5**.

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 for all monitor wells sampled during all 2020 sampling events.

Chloride analytical results for monitor wells MW-2 and MW-5, were below the 250 milligrams per liter (mg/L) NMWQCC standard during the two 2020 sampling events. The chloride analytical results for MW-4 and MW-6 exceeded the NMWQCC standards during both 2020 sampling events. Chloride concentrations in monitor well MW-4 decreased from 527 mg/L on February 19, 2020 to 509 mg/L on August 12, 2020. Chloride concentrations in monitor well MW-6 increased from 564 mg/L on February 19, 2020 to 602 mg/L on August 12, 2020.

Graphs of chloride concentrations versus groundwater elevations for monitor wells MW-2, MW-4, MW-5, and MW-6 are included in **Appendix B**. These graphs indicate generally stable chloride concentrations in monitor well MW-2 and fluctuations within the historic range of concentrations in monitor well MW-5. For the two monitor wells with chloride concentrations exceeding the NMWQCC standards, chloride concentrations in downgradient monitor well MW-4 have been fluctuating within the historic range of previously detected concentrations and chloride concentrations in cross-gradient monitor well MW-6 generally decreased since August 2018.

Chloride concentration maps for the two 2020 sampling events are included as **Figures 6** and **7**. The groundwater analytical data is summarized in **Table 2**. Copies of the laboratory analytical reports are included in **Appendix C**.

CONCLUSIONS

1. The chloride analytical results for monitor wells MW-4 and MW-6 exceeded the NMWQCC standards during both 2020 sampling events which is consistent with previous results. Chloride concentrations in monitor well MW-4 decreased during the 2020 sampling events. Chloride concentrations in monitor well MW-6 have generally decreased since August of 2018.
2. Chloride concentrations for monitor wells MW-2 and MW-5 were below the NMWQCC standard of 250 mg/L during both 2020 sampling events which is consistent with previous results.
3. Analytical results indicate that all four wells sampled had no BTEX concentrations exceeding the method detection limits.
4. A total estimated volume of 1,198.5 gallons of PSH has been recovered by the remediation system between startup in 2014 and December 2020.



PROPOSED 2021 GROUNDWATER MONITORING PROGRAM

Continued semiannual groundwater monitoring and PSH recovery system operations are 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.

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

Ray Cheatham
Principal Geologist

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

Greg Pope
Principal Geologist

Attachments:

Figures

Tables

Appendix A – Recovery System Schematics

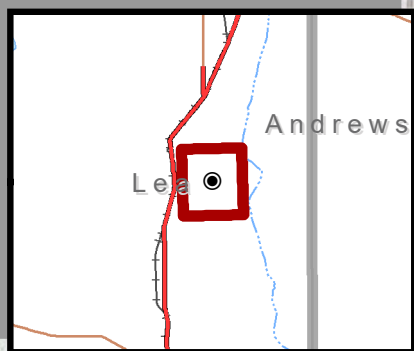
Appendix B – Groundwater Elevation and Chloride Concentration Graphs

Appendix C – Groundwater Laboratory Reports

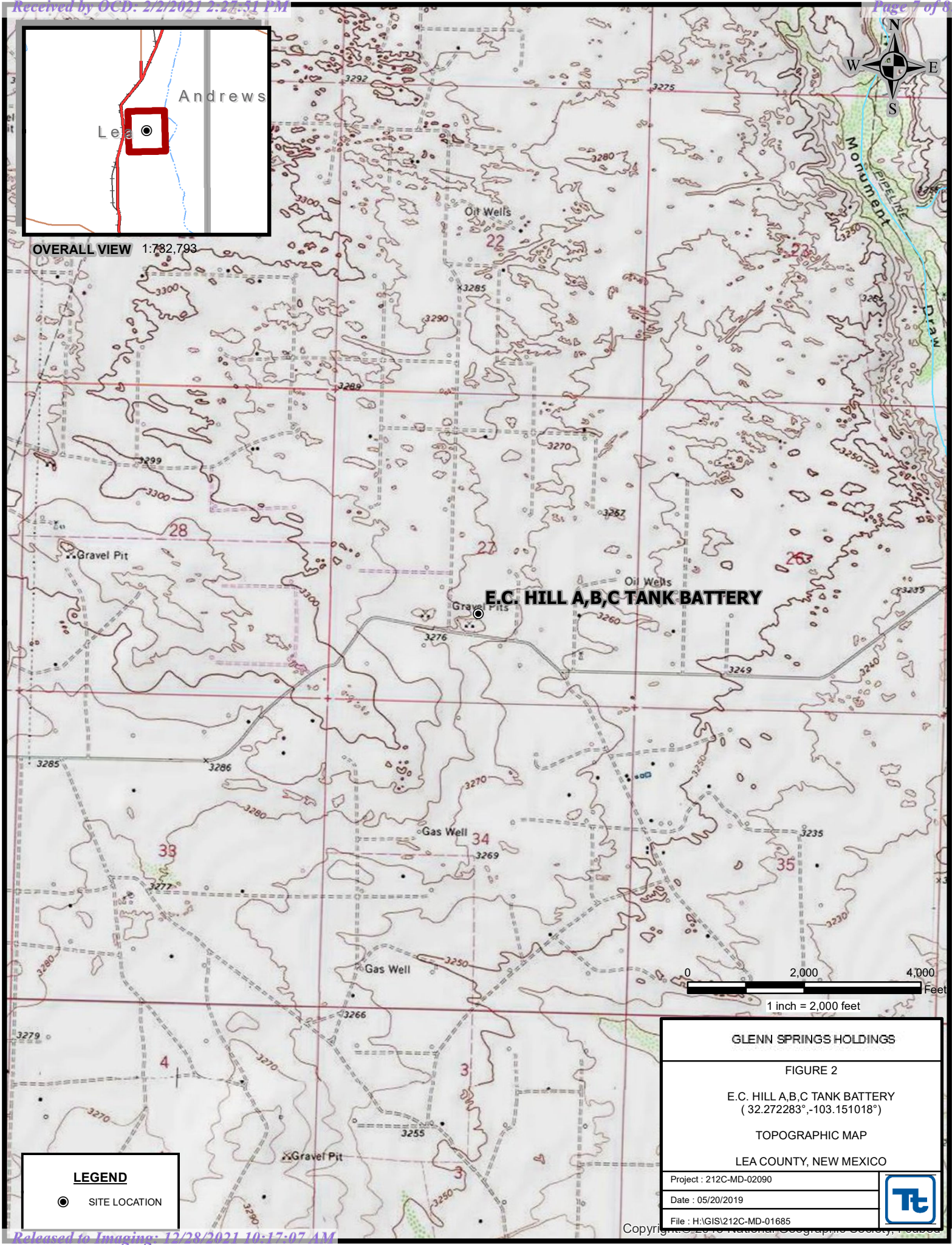
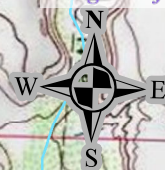
cc: Dusty Wilson – Glenn Springs Holdings, Inc.

Figures





OVERALL VIEW 1:782,793



LEGEND

● SITE LOCATION

GLENN SPRINGS HOLDINGS

FIGURE 2

E.C. HILL A,B,C TANK BATTERY
(32.272283°,-103.151018°)

TOPOGRAPHIC MAP

LEA COUNTY, NEW MEXICO

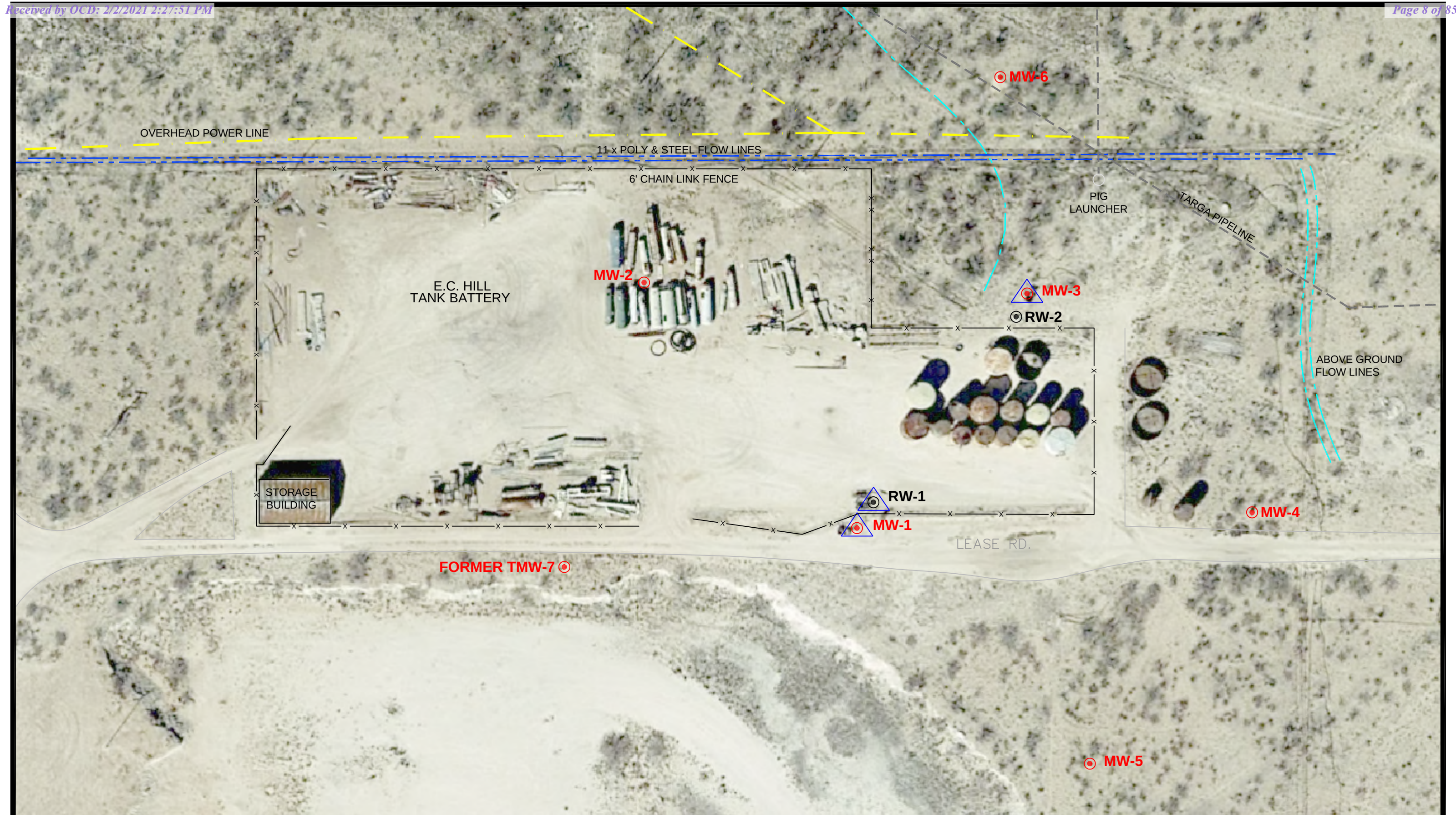
Project : 212C-MD-02090

Date : 05/20/2019

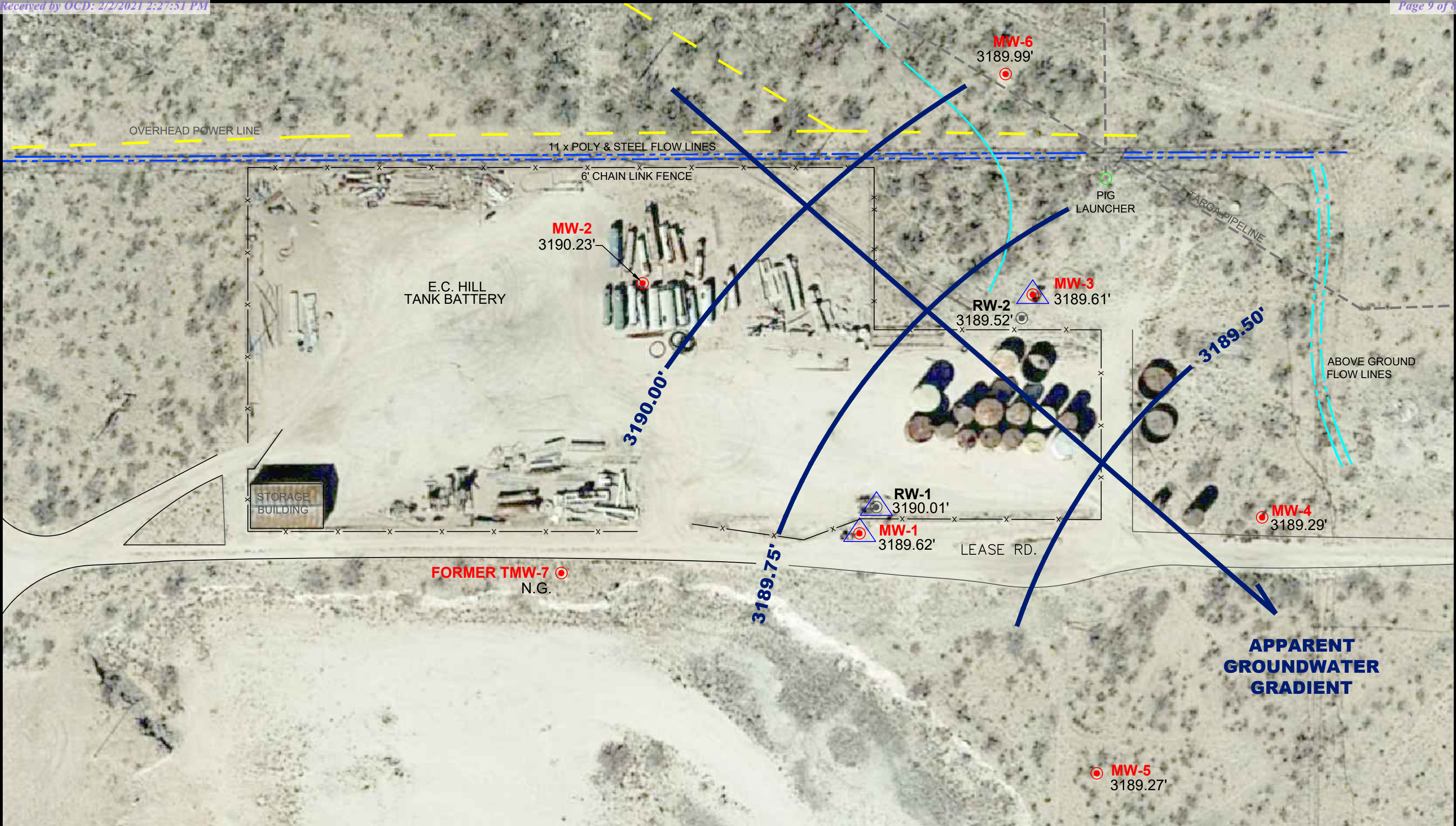
File : H:\GIS\212C-MD-01685



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LEGEND ⊙ = MONITOR WELL LOCATIONS ⊙ = RECOVERY WELL LOCATIONS △ = SKIMMER PUMP SYSTEM — = BURIED PIPELINE — = FENCE LINE — = O.H. POWERLINE — = ABOVEGROUND FLOWLINE — = STEEL PIPE	NOTES: 1. ALL ELEVATIONS IN FEET AMSL 2. TMW = TEMPORARY MONITOR WELL SOURCE: "NEW MEXICO" 32°16'20.23"N, 103° 9'3.44"W, GOOGLE EARTH. FEBRUARY 20, 2019, APRIL 20, 2020	TETRA TECH 901 W. WALL STREET STE. 100 MIDLAND, TEXAS (432) 682-4559	GLENN SPRINGS HOLDINGS	NORTH 0 20 50ft	FIGURE 3 SITE MAP E.C. HILL "A", "B", "C" TANK BATTERY LEA COUNTY, NEW MEXICO <table border="1"><tr><td>Project: 212C-MD-02090</td><td>REV.</td></tr><tr><td>Date: 4/21/20</td><td></td></tr><tr><td>File: H:\Acad Data\GLENN SPRINGS\2019\01685</td><td></td></tr></table>	Project: 212C-MD-02090	REV.	Date: 4/21/20		File: H:\Acad Data\GLENN SPRINGS\2019\01685	
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Date: 4/21/20											
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- = MONITOR WELL LOCATIONS
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- △ = SKIMMER PUMP SYSTEM
- = BURIED PIPELINE
- = FENCE LINE
- = O.H. POWER LINE
- = ABOVEGROUND FLOWLINE
- = CONTOUR INTERVALS .25 FT.
- = APPARENT GROUND WATER GRADIENT DIRECTIONAL

NOTES:

- ALL ELEVATIONS IN FEET AMSL
- TMW = TEMPORARY MONITOR WELL
- N.G. = NOT GAUGED

SOURCE: "NEW MEXICO" 32°16'20.23"N, 103°9'3.44"W. GOOGLE EARTH. FEBRUARY 20, 2019, APRIL 20, 2020

TETRA TECH

901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

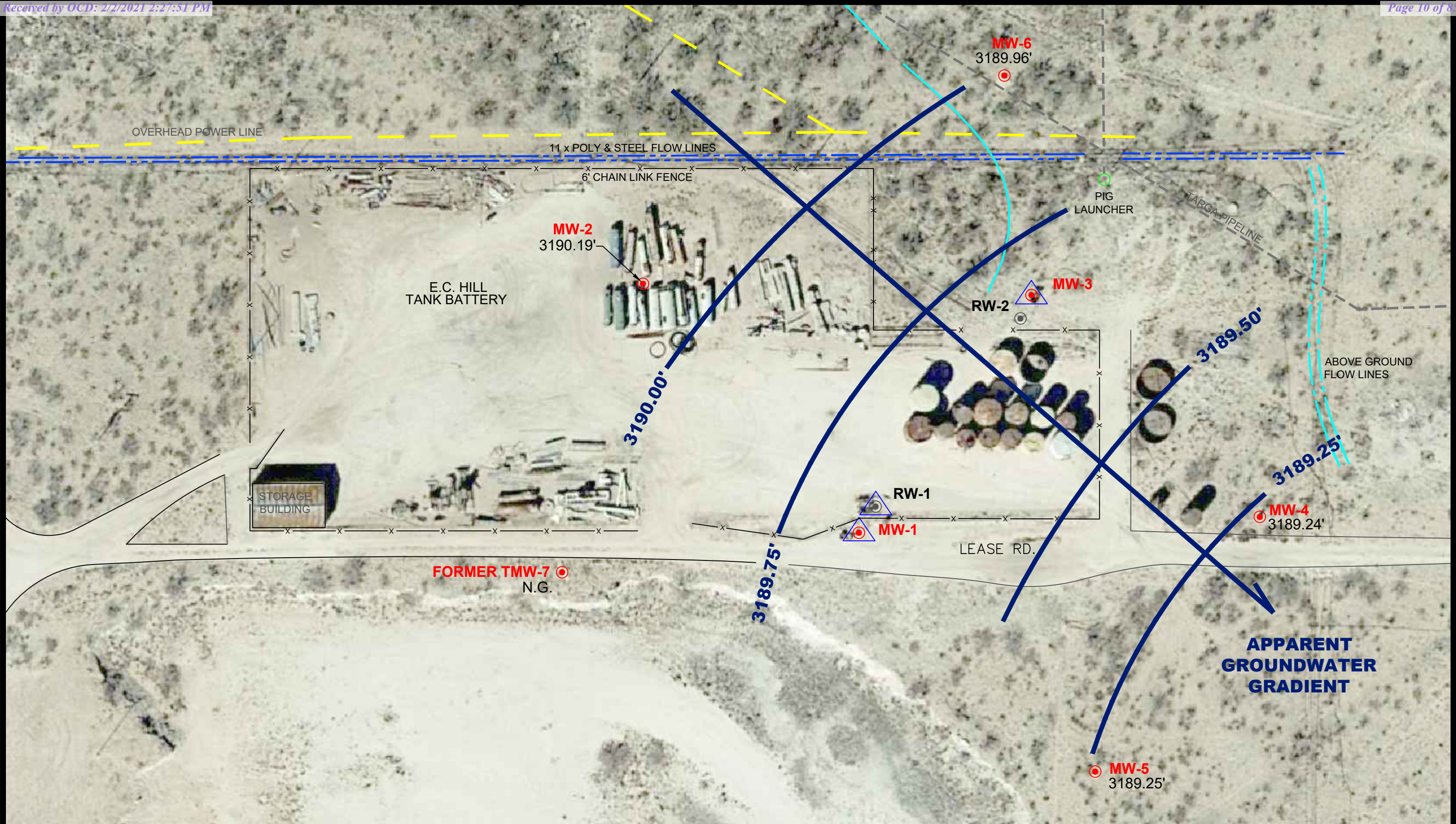
NORTH

0 20 50ft

FIGURE 4

GROUND WATER GRADIENT MAP
FEBRUARY 19, 2020
E.C. HILL "A", "B", "C" TANK BATTERY
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02090	REV.
Date: 11/3/20	
File: M:\Acad Data\GLENN SPRINGS\2020\212C-MD-02090 E.C. HILL A, B, C TANK BATT	



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SOURCE: "NEW MEXICO" 32°16'20.23"N, 103°9'3.44"W. GOOGLE EARTH. FEBRUARY 20, 2019, APRIL 20, 2020

TETRA TECH

901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

FIGURE 5

GROUND WATER GRADIENT MAP
AUGUST 12, 2020
E.C. HILL "A", "B", "C" TANK BATTERY
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02090	REV.
Date: 10/20/20	
File: M:\Acad Data\GLENN SPRINGS\2020\212C-MD-02090 E.C. HILL A, B, C TANK BATT	



LEGEND ● MONITOR WELL LOCATIONS ⊕ TEMPORARY MONITOR WELL △ SKIMMER PUMP SYSTEM --- STEEL PIPE --- ABOVEGROUND POLYPIPE --- BURIED PIPELINE	NOTES:	TETRA TECH 901 W. WALL STREET STE. 100 MIDLAND, TEXAS (432) 682-4559	GLENN SPRINGS HOLDINGS NORTH 0 20 60ft	FIGURE 6 BTEX & Chloride Concentration Map February 19, 2020 E.C. HILL "A", "B", "C" TANK BATTERY LEA COUNTY, NEW MEXICO <table border="1"><tr><td>Project: 212C-MD-02090</td><td>REV.</td></tr><tr><td>Date: 5/20/2019</td><td></td></tr><tr><td>File: H:\Acad Data\GLENN SPRINGS\2019\01685</td><td></td></tr></table>	Project: 212C-MD-02090	REV.	Date: 5/20/2019		File: H:\Acad Data\GLENN SPRINGS\2019\01685	
Project: 212C-MD-02090	REV.									
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Date: 5/20/2019										
File: R:\Acad Data\GLENN SPRINGS\2019\01685										

Tables

Table 1
 OXY USA, Inc.
 E.C. Hill A, B & C Tank Battery
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-1	09/17/04	115	-	88.46	-	3274.52	3186.06
	06/17/05	115	86.01	86.04	0.03	3274.52	3188.48
	11/14/05	115	85.82	85.94	0.12	3274.52	3188.49
	03/22/06	115	85.89	87.14	1.25	3274.52	3188.32
	09/22/06	115	85.63	88.26	2.63	3274.52	3188.23
	03/16/07	115	85.65	88.70	3.05	3274.52	3188.11
	06/06/07	115	85.52	88.51	2.99	3274.52	3188.25
	09/28/07	115	85.60	88.62	3.02	3274.52	3188.17
	12/18/07	115	NM	NM	NM	NM	NM
	03/28/08	115	85.70	88.94	3.24	3274.52	3188.01
	06/26/08	115	85.59	88.66	3.07	3274.52	3188.16
	09/22/08	115	85.78	88.20	2.42	3274.52	3188.14
	12/04/08	115	86.01	88.80	2.79	3274.52	3187.81
	03/12/09	115	85.68	88.60	2.92	3274.52	3188.11
	06/22/09	115	85.65	88.63	2.98	3274.52	3188.13
	09/16/09	115	85.74	88.94	3.20	3274.52	3187.98
	12/09/09	115	85.67	88.70	3.03	3274.52	3188.09
	03/10/10	115	85.62	88.68	3.06	3274.52	3188.14
	06/08/10	115	85.70	88.89	3.19	3274.52	3188.02
	09/13/10	115	85.68	88.84	3.16	3274.52	3188.05
	12/14/10	115	85.63	88.78	3.15	3274.52	3188.10
	03/10/11	115	85.63	88.86	3.23	3274.52	3188.08
	06/13/11	115	85.63	88.75	3.12	3274.52	3188.11
	09/19/11	115	85.81	89.13	3.32	3274.52	3187.88
	12/12/11	115	85.83	88.92	3.09	3274.52	3187.92
	03/22/12	115	85.78	89.96	4.18	3274.52	3187.70
	04/06/12	115	85.77	89.97	4.20	3274.52	3187.70
	06/20/12	115	85.75	89.03	3.28	3274.52	3187.95
	09/24/12	115	85.97	88.20	2.23	3274.52	3187.99
	12/14/12	115	86.01	87.13	1.12	3274.52	3188.23
	03/27/13	115	85.93	87.95	2.02	3274.52	3188.09
	06/07/13	115	85.94	88.30	2.36	3274.52	3187.99
	06/24/13	115	86.05	88.43	2.38	3274.52	3187.88
	07/08/13	115	86.28	87.51	1.23	3274.52	3187.93
	07/23/13	115	86.30	87.20	0.90	3274.52	3188.00
	08/06/13	115	86.40	86.70	0.30	3274.52	3188.05
	09/19/13	115	NG	NG	-	3274.52	-
	11/07/13	115	86.12	87.60	1.48	3274.52	3188.03
	12/27/13	115	86.26	87.38	1.12	3274.52	3187.98
	03/27/14	112.68	86.14	87.39	1.25	3274.52	3188.07
	06/17/14	112.68	86.11	88.04	1.93	3274.52	3187.93
	09/26/14	112.68	86.24	86.78	0.54	3274.52	3188.15
	12/16/14	112.68	86.27	86.84	0.57	3274.52	3188.11
	03/24/15	-	86.20	86.35	0.15	3274.52	3188.28
	04/09/15	-	86.11	86.57	0.46	3274.52	3188.30
	06/18/15	-	86.10	86.90	0.80	3274.52	3188.22
	07/30/15	-	85.88	87.30	1.42	3274.52	3188.29

Table 1
 OXY USA, Inc.
 E.C. Hill A, B & C Tank Battery
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-1 Cont.	08/05/15	-	85.86	87.51	1.65	3274.52	3188.25
	08/18/15	-	86.06	86.09	0.03	3274.52	3188.45
	09/09/15	112.68	86.11	86.35	0.24	3274.52	3188.35
	12/18/15	-	86.12	86.65	0.53	3275.89	3189.64
	03/14/16	-	85.95	87.45	1.50	3275.89	3189.57
	06/28/16	-	86.19	86.48	0.29	3275.89	3189.63
	09/07/16	-	86.01	86.52	0.51	3275.89	3189.79
	12/06/16	-	86.12	86.90	0.78	3275.89	3189.63
	03/01/17	112.30	86.10	87.25	1.15	3275.89	3189.59
	08/29/17	-	86.96	88.18	1.22	3275.89	3188.72
	02/20/18	-	85.77	88.02	2.25	3275.89	3189.72
	08/23/18	-	85.86	88.10	2.24	3275.89	3189.64
	02/07/19	112.22	85.96	87.75	1.79	3275.89	3189.61
	08/08/19	112.22	85.91	88.01	2.10	3275.89	3189.61
	02/19/20	-	85.90	88.00	2.10	3275.89	3189.62
	08/20/20	-	87.14	88.03	0.89	3275.89	3188.59
MW-2	06/17/05	102	-	86.04	-	3274.99	3188.95
	11/14/05	102	-	85.9	-	3274.99	3189.09
	03/22/06	102	-	86.08	-	3274.99	3188.91
	09/22/06	102	NM	NM	NM	3274.99	NM
	03/16/07	102	-	86.23	-	3274.99	3188.76
	06/06/07	102	-	86.10	-	3274.99	3188.89
	09/28/07	102	-	86.22	-	3274.99	3188.77
	12/18/07	102	-	86.20	-	3274.99	3188.79
	03/28/08	102	-	86.26	-	3274.99	3188.73
	06/26/08	102	-	86.16	-	3274.99	3188.83
	09/22/08	102	-	86.23	-	3274.99	3188.76
	12/04/08	102	-	86.60	-	3274.99	3188.39
	03/12/09	102	-	86.25	-	3274.99	3188.74
	06/22/09	102	-	86.25	-	3274.99	3188.74
	09/16/09	102	-	86.58	-	3274.99	3188.41
	12/09/09	102	-	86.28	-	3274.99	3188.71
	03/10/10	102	-	86.57	-	3274.99	3188.42
	06/08/10	102	-	86.29	-	3274.99	3188.70
	09/13/10	102	-	86.23	-	3274.99	3188.76
	12/14/10	102	-	87.02	-	3274.99	3187.97
	03/10/11	102	-	86.25	-	3274.99	3188.74
	06/13/11	102	-	86.23	-	3274.99	3188.76
	09/19/11	102	-	86.36	-	3274.99	3188.63
	12/12/11	102	-	86.40	-	3274.99	3188.59
	03/22/12	102	-	86.41	-	3274.99	3188.58
	04/06/12	102	-	86.27	-	3274.99	3188.72
	06/20/12	102	-	86.39	-	3274.99	3188.60
	09/24/12	102	-	86.32	-	3274.99	3188.67
	12/14/12	102	-	86.30	-	3274.99	3188.69
	03/27/13	102	-	86.32	-	3274.99	3188.67
	06/06/13	102	-	86.40	-	3274.99	3188.59
	09/19/13	101.60	-	86.38	-	3274.99	3188.61
	11/07/13	101.60	-	86.49	-	3274.99	3188.50

212C-MD-02090

Table 1
OXY USA, Inc.
E.C. Hill A, B & C Tank Battery
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-2 Cont.	12/26/13	101.60	-	86.48	-	3274.99	3188.51
	03/27/14	100.10	-	86.42	-	3274.99	3188.57
	06/17/14	100.10	-	86.45	-	3274.99	3188.54
	09/26/14	100.00	-	86.49	-	3274.99	3188.50
	12/16/14	100.00	-	86.23	-	3274.99	3188.76
	03/24/15	-	-	86.26	-	3274.99	3188.73
	06/18/15	-	-	86.33	-	3274.99	3188.66
	08/05/15	-	-	86.25	-	3274.99	3188.74
	09/09/15	100.00	-	86.21	-	3274.99	3188.78
	12/18/15	-	-	86.16	-	3276.46	3190.30
	03/14/16	100.00	-	86.23	-	3276.46	3190.23
	06/28/16	100.00	-	86.31	-	3276.46	3190.15
	09/07/16	-	-	86.29	-	3276.46	3190.17
	12/06/16	-	-	86.38	-	3276.46	3190.08
	03/01/17	99.25	-	86.40	-	3276.46	3190.06
	08/29/17	99.25	-	86.34	-	3276.46	3190.12
	02/20/18	99.55	-	86.19	-	3276.46	3190.27
	08/23/18	-	-	86.44	-	3276.46	3190.02
	02/07/19	99.56	-	86.20	-	3276.46	3190.26
	08/08/19	99.56	-	86.25	-	3276.46	3190.21
	02/19/20	99.85	-	86.23	-	3276.46	3190.23
	08/12/20	99.50	-	86.27	-	3276.46	3190.19
MW-3	11/14/05	101	-	87.96	-	3276.48	3188.50
	03/22/06	101	-	87.99	-	3276.48	3188.49
	09/22/06	101	-	88.02	-	3276.48	3188.46
	03/16/07	101	-	88.08	-	3276.48	3188.40
	06/06/07	101	-	88.00	-	3276.48	3188.48
	09/28/07	101	-	88.10	-	3276.48	3188.38
	12/18/07	101	-	88.08	-	3276.48	3188.40
	03/28/08	101	87.76	90.27	2.51	3276.48	3188.09
	06/26/08	101	87.60	90.51	2.91	3276.48	3188.15
	09/22/08	101	87.66	90.63	2.97	3276.48	3188.08
	12/04/08	101	87.94	90.98	3.04	3276.48	3187.78
	03/12/09	101	87.63	90.67	3.04	3276.48	3188.09
	06/22/09	101	87.60	90.69	3.09	3276.48	3188.11
	09/16/09	101	87.73	90.82	3.09	3276.48	3187.98
	12/09/09	101	87.64	90.69	3.05	3276.48	3188.08
	03/10/10	101	87.58	90.68	3.10	3276.48	3188.13
	06/08/10	101	87.68	89.80	2.12	3276.48	3188.27
	09/13/10	101	87.66	90.77	3.11	3276.48	3188.04
	12/14/10	101	87.63	90.67	3.04	3276.48	3188.09
	03/10/11	101	87.60	90.67	3.07	3276.48	3188.11
	06/13/11	101	87.59	90.67	3.08	3276.48	3188.12
	09/19/11	101	87.80	90.67	2.87	3276.48	3187.96
	12/12/11	101	87.74	90.67	2.93	3276.48	3188.01
	03/22/12	101	87.75	90.97	3.22	3276.48	3187.93
	04/06/12	101	87.74	90.96	3.22	3276.48	3187.94
	06/20/12	101	87.71	90.95	3.24	3276.48	3187.96
	09/24/12	101	87.77	91.03	3.26	3276.48	3187.90

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Table 1
OXY USA, Inc.
E.C. Hill A, B & C Tank Battery
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-3 Cont.	12/14/12	101	87.73	91.02	3.29	3276.48	3187.93
	03/27/13	101	87.72	90.96	3.24	3276.48	3187.95
	06/07/13	101	87.78	91.10	3.32	3276.48	3187.87
	06/24/13	101	87.87	91.15	3.28	3276.48	3187.79
	07/08/13	101	87.97	90.88	2.91	3276.48	3187.78
	07/23/13	101	87.90	91.00	3.10	3276.48	3187.81
	08/06/13	101	87.91	91.03	3.12	3276.48	3187.79
	09/19/13	101	NG	NG	-	3276.48	-
	11/07/13	101	87.79	91.11	3.32	3276.48	3187.86
	12/26/13	101	87.90	91.08	3.18	3276.48	3187.79
	03/27/14	106.14	87.83	90.70	2.87	3276.48	3187.93
	06/17/14	106.14	88.02	90.37	2.35	3276.48	3187.87
	09/26/14	106.14	87.99	90.73	2.74	3276.48	3187.81
	12/16/14	106.14	87.90	90.71	2.81	3276.48	3187.88
	03/24/15	-	88.20	88.56	0.36	3276.48	3188.19
	04/09/15	-	87.82	90.17	2.35	3276.48	3188.07
	06/18/15	-	87.91	90.24	2.33	3276.48	3187.99
	07/30/15	-	87.74	90.08	2.34	3276.48	3188.16
	08/05/15	-	88.15	88.30	0.15	3276.48	3188.29
	08/18/15	-	88.06	88.25	0.19	3276.48	3188.37
	09/09/15	106.14	87.71	90.48	2.77	3276.48	3188.08
	12/18/15	-	87.90	90.06	2.16	3277.87	3189.43
	03/14/16	106.14	87.89	89.55	1.66	3277.87	3189.57
	06/28/16	-	87.75	90.60	2.85	3277.87	3189.41
	09/07/16	-	87.72	89.89	2.17	3277.87	3189.77
	12/06/16	-	87.73	89.92	2.19	3277.87	3189.76
	03/01/17	104.52	88.00	90.33	2.33	3277.87	3189.46
	08/29/17	104.52	87.99	91.02	3.03	3277.87	3189.35
	02/20/18	-	87.85	89.67	1.82	3277.87	3189.70
	08/23/18	-	88.00	89.84	1.84	3277.87	3189.55
	02/07/19	104.52	87.90	90.08	2.18	3277.87	3189.59
	08/08/19	104.52	87.96	89.41	1.45	3277.87	3189.66
	02/19/20	-	87.80	90.45	2.65	3277.87	3189.61
	08/20/20	-	88.60	88.99	0.39	3277.87	3189.20
MW-4	09/22/06	100	-	87.22	-	3275.22	3188.00
	03/16/07	100	-	87.29	-	3275.22	3187.93
	06/06/07	100	-	87.20	-	3275.22	3188.02
	09/28/07	100	-	87.31	-	3275.22	3187.91
	12/18/07	100	-	87.29	-	3275.22	3187.93
	03/28/08	100	-	87.33	-	3275.22	3187.89
	06/26/08	100	-	87.26	-	3275.22	3187.96
	09/22/08	100	-	87.32	-	3275.22	3187.90
	12/04/08	100	-	87.50	-	3275.22	3187.72
	03/12/09	100	-	87.34	-	3275.22	3187.88
	06/22/09	100	-	87.32	-	3275.22	3187.90
	09/16/09	100	-	87.39	-	3275.22	3187.83
	12/09/09	100	-	87.32	-	3275.22	3187.90
	03/10/10	100	-	87.27	-	3275.22	3187.95
	06/08/10	100	-	87.34	-	3275.22	3187.88

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Table 1
 OXY USA, Inc.
 E.C. Hill A, B & C Tank Battery
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-4 Cont.	09/13/10	100	-	87.32	-	3275.22	3187.90
	12/14/10	100	-	88.13	-	3275.22	3187.09
	03/10/11	100	-	87.34	-	3275.22	3187.88
	06/13/11	100	-	87.32	-	3275.22	3187.90
	09/19/11	100	-	87.43	-	3275.22	3187.79
	12/12/11	100	-	87.48	-	3275.22	3187.74
	03/22/12	100	-	87.31	-	3275.22	3187.91
	04/06/12	100	-	87.35	-	3275.22	3187.87
	06/20/12	100	-	87.43	-	3275.22	3187.79
	09/24/12	100	-	87.36	-	3275.22	3187.86
	12/14/12	100	-	87.44	-	3275.22	3187.78
	03/27/13	100	-	87.43	-	3275.22	3187.79
	06/06/13	100	-	87.51	-	3275.22	3187.71
	09/19/13	100	-	87.51	-	3275.22	3187.71
	11/07/13	100	-	87.61	-	3275.22	3187.61
	12/26/13	100	-	87.56	-	3275.22	3187.66
	03/27/14	101.31	-	87.52	-	3275.22	3187.70
	06/17/14	101.31	-	87.52	-	3275.22	3187.70
	09/26/14	101.22	-	87.59	-	3275.22	3187.63
	12/16/14	101.22	-	87.35	-	3275.22	3187.87
	03/24/15	-	-	87.32	-	3275.22	3187.90
	06/18/15	100.66	-	87.48	-	3275.22	3187.74
	08/05/15	-	-	87.38	-	3275.22	3187.84
	09/09/15	100.66	-	87.27	-	3275.22	3187.95
	12/18/15	100.66	-	87.30	-	3276.59	3189.29
	03/14/16	100.66	-	87.29	-	3276.59	3189.30
	06/28/16	100.66	-	87.36	-	3276.59	3189.23
	09/07/16	-	-	87.41	-	3276.59	3189.18
	12/06/16	-	-	87.45	-	3276.59	3189.14
	03/01/17	100.67	-	87.43	-	3276.59	3189.16
	08/29/17	100.67	-	87.41	-	3276.59	3189.18
	02/20/18	100.71	-	87.21	-	3276.59	3189.38
	08/23/18	-	-	87.52	-	3276.59	3189.07
	02/07/19	100.67	-	87.27	-	3276.59	3189.32
	08/08/19	101.2	-	87.32	-	3276.59	3189.27
	02/19/20	101.2	-	87.30	-	3276.59	3189.29
	08/12/20	100.8	-	87.35	-	3276.59	3189.24
MW-5	09/22/06	100	-	87.04	-	3275.04	3188.00
	03/16/07	100	-	87.11	-	3275.04	3187.93
	06/06/07	100	-	87.02	-	3275.04	3188.02
	09/28/07	100	-	87.10	-	3275.04	3187.94
	12/18/07	100	-	87.09	-	3275.04	3187.95
	03/28/08	100	-	87.14	-	3275.04	3187.90
	06/26/08	100	-	87.08	-	3275.04	3187.96
	09/22/08	100	-	87.13	-	3275.04	3187.91
	12/04/08	100	-	87.50	-	3275.04	3187.54
	03/12/09	100	-	87.17	-	3275.04	3187.87
	06/22/09	100	-	87.12	-	3275.04	3187.92
	09/16/09	100	-	87.23	-	3275.04	3187.81

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 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-5 Cont.	12/09/09	100	-	87.23	-	3275.04	3187.81
	03/10/10	100	-	87.10	-	3275.04	3187.94
	06/08/10	100	-	87.19	-	3275.04	3187.85
	09/13/10	100	-	87.18	-	3275.04	3187.86
	12/14/10	100	-	87.94	-	3275.04	3187.10
	03/10/11	100	-	87.17	-	3275.04	3187.87
	06/13/11	100	-	87.14	-	3275.04	3187.90
	09/19/11	100	-	87.25	-	3275.04	3187.79
	12/12/11	100	-	87.29	-	3275.04	3187.75
	03/22/12	100	-	87.31	-	3275.04	3187.73
	04/06/12	100	-	87.21	-	3275.04	3187.83
	06/20/12	100	-	87.29	-	3275.04	3187.75
	09/24/12	100	-	87.30	-	3275.04	3187.74
	12/14/12	100	-	87.25	-	3275.04	3187.79
	03/27/13	100	-	87.21	-	3275.04	3187.83
	06/06/13	100	-	87.31	-	3275.04	3187.73
	09/19/13	101.48	-	87.30	-	3275.04	3187.74
	11/07/13	101.48	-	87.43	-	3275.04	3187.61
	12/26/13	101.48	-	87.41	-	3275.04	3187.63
	03/27/14	99.33	-	87.34	-	3275.04	3187.70
	06/17/14	99.33	-	87.34	-	3275.04	3187.70
	09/26/14	99.32	-	87.40	-	3275.04	3187.64
	12/16/14	99.32	-	87.15	-	3275.04	3187.89
	03/24/15	-	-	87.12	-	3275.04	3187.92
	06/18/15	99.30	-	87.60	-	3275.04	3187.44
	08/05/15	-	-	87.15	-	3275.04	3187.89
	09/09/15	99.30	-	87.10	-	3275.04	3187.94
	12/18/15	99.30	-	87.09	-	3276.40	3189.31
	03/14/16	99.30	-	87.11	-	3276.40	3189.29
	06/28/16	99.30	-	87.21	-	3276.40	3189.19
	09/07/16	-	-	87.24	-	3276.40	3189.16
	12/06/16	-	-	87.23	-	3276.40	3189.17
	03/01/17	98.91	-	87.27	-	3276.40	3189.13
	08/29/17	98.91	-	87.25	-	3276.40	3189.15
	02/20/18	98.97	-	87.06	-	3276.40	3189.34
	08/23/18	-	-	87.31	-	3276.40	3189.09
	02/07/19	99.00	-	87.60	-	3276.40	3188.80
	08/08/19	99.10	-	87.15	-	3276.40	3189.25
	02/19/20	99.10	-	87.13	-	3276.40	3189.27
	08/12/20	98.74	-	87.15	-	3276.40	3189.25
MW-6	10/02/15		-	86.77	-	3276.75	3189.98
	10/29/16		-	86.79	-	3276.75	3189.96
	12/18/15		-	86.79	-	3276.75	3189.96
	03/14/16	100	-	86.75	-	3276.75	3190.00
	06/28/16	100	-	86.86	-	3276.75	3189.89
	09/07/16	-	-	86.81	-	3276.75	3189.94
	12/06/16	-	-	86.89	-	3276.75	3189.86
	03/01/17	101.20	-	86.89	-	3276.75	3189.86
	08/29/17	101.20	-	86.87	-	3276.75	3189.88

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Table 1
OXY USA, Inc.
E.C. Hill A, B & C Tank Battery
Summary of Groundwater Elevations and PSH Thickness
Lea County, New Mexico

Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-6 Cont.	02/20/18	100.95	-	86.72	-	3276.75	3190.03
	08/23/18	-	-	86.90	-	3276.75	3189.85
	02/07/19	101.20	-	86.70	-	3276.75	3190.05
	08/08/19	100.25	-	86.31	-	3276.75	3190.44
	02/19/20	100.25	-	86.76	-	3276.75	3189.99
	08/12/20	100.08	-	86.79	-	3276.75	3189.96
TMW-7	10/02/15	-	-	92.56	-	3280.64	3188.08
	10/29/16	94.80	-	90.58	-	3280.64	3190.06
	12/18/15	-	-	90.56	-	3280.64	3190.08
	03/02/16	94.80	-	90.59	-	3280.64	3190.05
RW-1	06/13/11	-	-	88.70	-	NA	NA
	09/19/11	-	88.67	89.96	1.29	-	-
	12/12/11	-	88.32	91.45	3.13	-	-
	03/22/12	-	88.31	91.47	3.16	-	-
	04/06/12	-	88.30	91.46	3.16	-	-
	06/20/12	-	88.30	91.50	3.20	-	-
	09/24/12	-	88.33	91.55	3.22	-	-
	12/14/12	-	88.46	90.55	2.09	-	-
	03/27/13	-	88.83	88.88	0.05	-	-
	06/07/13	-	88.41	91.32	2.91	-	-
	09/19/13	-	NG	-	-	-	-
	11/07/13	-	88.42	91.40	2.98	-	-
	12/26/13	-	88.41	91.44	3.03	-	-
	03/27/14	-	88.39	91.46	3.07	-	-
	06/17/14	-	88.48	91.51	3.03	-	-
	09/26/14	-	88.38	91.37	2.99	-	-
	12/16/14	-	88.39	91.41	3.02	-	-
	03/24/15	-	88.35	91.11	2.76	-	-
	04/09/15	-	88.31	91.11	2.80	-	-
	06/18/15	-	88.26	91.05	2.79	-	-
	07/09/15	-	88.30	90.96	2.66	-	-
	07/29/15	-	88.30	90.81	2.51	-	-
	08/05/15	-	88.26	90.67	2.41	-	-
	08/18/15	-	88.58	88.93	0.35	-	-
	09/09/15	-	88.26	91.39	3.13	-	-
	12/18/15	-	88.40	90.60	2.20	3278.48	3189.53
	03/14/16	-	88.32	90.68	2.36	3278.48	3189.57
	06/28/16	-	88.37	90.75	2.38	3278.48	3189.52
	09/07/16	-	88.35	90.77	2.42	3278.48	3189.70
	12/06/16	-	88.33	90.80	2.47	3278.48	3189.72
	03/01/17	104.20	88.45	90.80	2.35	3278.48	3189.62
	08/29/17	104.20	88.59	91.05	2.46	3278.48	3189.46
	02/20/18	-	88.29	90.58	2.29	3278.48	3189.79
	08/23/18	-	88.39	90.88	2.49	3278.48	3189.65
	02/07/19	104.20	88.39	90.86	2.47	3278.48	3189.66
	08/08/19	104.20	88.38	90.90	2.52	3278.48	3189.66
	02/19/20	-	88.00	90.67	2.67	3278.48	3190.01
	08/20/20	-	87.61	88.62	1.01	3278.48	3190.69

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Well/ Borehole ID	Date Gauged	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
RW-2	06/13/11	-	-	88.75	-	NA	NA
	09/19/11	-	-	88.92	-	-	-
	12/12/11	-	-	88.88	-	-	-
	03/22/12	-	88.87	88.91	0.04	-	-
	04/06/12	-	88.88	88.93	0.05	-	-
	06/20/12	-	88.84	88.96	0.12	-	-
	09/24/12	-	88.87	89.11	0.24	-	-
	12/14/12	-	88.89	89.01	0.12	-	-
	03/27/13	-	88.83	89.11	0.28	-	-
	06/07/13	-	88.91	89.32	0.41	-	-
	06/24/13	-	88.96	89.34	0.38	-	-
	07/08/13	-	89.03	89.24	0.21	-	-
	07/23/13	-	89.00	89.20	0.20	-	-
	08/06/13	-	89.00	89.20	0.20	-	-
	09/19/13	-	NG	-	-	-	-
	11/07/13	-	88.93	89.26	0.33	-	-
	12/26/13	-	88.95	89.25	0.30	-	-
	03/27/14	-	88.88	89.21	0.33	-	-
	06/17/14	-	88.96	89.39	0.43	-	-
	09/26/14	-	88.96	89.48	0.52	-	-
	12/16/14	-	88.92	89.47	0.55	-	-
	03/24/15	-	88.74	89.35	0.61	-	-
	06/18/15	-	88.70	89.50	0.80	-	-
	08/05/15	-	88.71	89.04	0.33	-	-
	08/18/15	-	88.71	88.72	0.01	-	-
	09/09/15	-	88.74	88.75	0.01	-	-
	12/18/15	-	88.70	89.45	0.75	3278.47	3189.58
	03/14/16	-	88.60	89.49	0.89	3278.47	3189.65
	06/28/16	-	88.71	89.48	0.77	3278.47	3189.57
	09/07/16	-	88.68	89.46	0.78	3278.47	3189.65
	12/06/16	-	88.66	89.49	0.83	3278.47	3189.67
	03/01/17	107.92	88.56	90.80	2.24	3278.47	3189.52
	08/29/17	107.92	88.40	91.34	2.94	3278.47	3189.56
	02/20/18	-	88.26	90.98	2.72	3278.47	3189.74
	08/23/18	-	88.35	90.91	2.56	3278.47	3189.67
	02/07/19	107.92	88.31	94.35	6.04	3278.47	3189.11
	08/08/19	-	88.36	90.88	2.52	3278.47	3189.67
	02/19/20	-	88.93	89.02	0.09	3278.47	3189.52
	08/20/20	-	87.01	88.07	1.06	3278.47	3191.28

(-) No data (TOC) Top of casing

(MW-1 and MW-3) Groundwater elevation corrected using 0.75 specific gravity

NM - Not Measured

NA - Top of Casing Elevation not available

NG - Not Gauged, instrument malfunction

TOC elevations resurveyed by John West Survey Company on October 29, 2015. This was the initial survey-
for MW-6, TMW-7, RW-1 and RW-2.

TMW-7 plugged on March 2, 2016.

8/26/2016, LNAPL Specific Gravity analysis: RW-1 = 0.824 and MW-3 = 0.826, used to correct groundwater elevations
Specific Gravity of 0.824 to correct RW-1 and MW-1; SG = 0.826 to correct RW-2 and MW-3 groundwater elevations

Table 2
 OXY USA, Inc.
 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-1	09/17/04	-	0.0385	0.0146	0.00694	0.0341	0.09414	195
	10/12/04	-	0.111	0.0197	0.0166	0.0699	0.2172	133
	06/24/05	0.03	-	-	-	-	-	-
	11/14/05	0.12	0.495	0.0809	0.137	0.253	0.9659	178
	03/22/06	1.25	-	-	-	-	-	-
	09/22/06	2.63	-	-	-	-	-	-
	03/16/07	3.05	-	-	-	-	-	-
	06/06/07	2.99	-	-	-	-	-	-
	09/28/07	3.02	-	-	-	-	-	-
	12/18/07	NM	-	-	-	-	-	-
	03/28/08	3.24	-	-	-	-	-	-
	06/26/08	3.07	-	-	-	-	-	-
	09/22/08	2.42	-	-	-	-	-	-
	12/04/08	2.79	-	-	-	-	-	-
	03/12/09	2.92	-	-	-	-	-	-
	06/22/09	2.98	-	-	-	-	-	-
	09/16/09	3.20	-	-	-	-	-	-
	12/09/09	3.03	-	-	-	-	-	-
	03/10/10	3.06	-	-	-	-	-	-
	06/08/10	3.19	-	-	-	-	-	-
	09/13/10	3.16	-	-	-	-	-	-
	12/14/10	3.15	-	-	-	-	-	-
	03/10/11	3.23	-	-	-	-	-	-
	06/13/11	3.12	-	-	-	-	-	-
	09/19/11	3.32	-	-	-	-	-	-
	12/12/11	3.09	-	-	-	-	-	-
	03/22/12	4.18	-	-	-	-	-	-

Table 2
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 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-1 Cont.	04/06/12	4.20	-	-	-	-	-	-
	06/20/12	3.28	-	-	-	-	-	-
	09/24/12	2.23	-	-	-	-	-	-
	12/14/12	1.12	-	-	-	-	-	-
	03/27/13	2.02	-	-	-	-	-	-
	06/07/13	2.36	-	-	-	-	-	-
	09/19/13	NG	-	-	-	-	-	-
	12/27/13	1.12	-	-	-	-	-	-
	03/27/14	1.25	-	-	-	-	-	-
	06/19/14	1.93	-	-	-	-	-	-
	09/26/14	0.54	-	-	-	-	-	-
	12/16/14	0.73	-	-	-	-	-	-
	03/24/15	0.15	-	-	-	-	-	-
	04/09/15	0.46	-	-	-	-	-	-
	06/18/15	0.80	-	-	-	-	-	-
	09/09/15	0.24	-	-	-	-	-	-
	12/18/15	0.53	-	-	-	-	-	-
	03/16/16	1.50	-	-	-	-	-	-
	06/30/16	0.29	-	-	-	-	-	-
	09/09/16	0.51	-	-	-	-	-	-
	12/07/16	0.78	-	-	-	-	-	-
	03/01/17	1.15	-	-	-	-	-	-
	08/29/17	1.22	-	-	-	-	-	-
	02/20/18	2.25	-	-	-	-	-	-
	08/23/18	2.24	-	-	-	-	-	-
	02/07/19	1.79	-	-	-	-	-	-
	08/08/19	2.10	-	-	-	-	-	-
	02/19/20	2.10	-	-	-	-	-	-
	08/20/20	0.89	-	-	-	-	-	-

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Table 2
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 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-2	06/24/05	-	<0.001	<0.001	<0.001	<0.001	<0.001	102
	11/14/05	-	<0.001	<0.001	<0.001	<0.001	<0.001	61.9
	03/22/06	-	<0.001	<0.001	<0.001	<0.001	<0.001	63.0
	09/22/06	NM	NM	NM	NM	NM	NM	NM
	03/16/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	74.0
	06/06/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	71.8
	09/28/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	47.6
	12/18/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	<200
	03/28/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	83.3
	06/26/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	85.0
	09/22/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	78.0
	12/04/08	-	<0.0005	<0.0005	<0.0005	<0.001	<0.001	94.5
	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	87.2
	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	83.3
	12/09/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	87.9
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	88.3
	06/08/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	90.3
	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	86.0
	12/14/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	85.3
	03/10/11	-	<0.001	<0.001	<0.001	<0.003	<0.003	82.2
	06/13/11	-	<0.00014	<0.00020	<0.00030	<0.00023	<0.00030	89
	09/19/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	88
	12/12/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	87
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	295
	06/20/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	98.0
	09/24/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	96.9
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	82.4
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	86.6
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	95.7
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	94.1

Table 2
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 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-2 Cont.	12/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	87.4
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	93.2
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	101
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	94.2
	12/16/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	89.4
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	88.5
	06/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	89.4
	09/09/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	86.2
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	83.2
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	91.4
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	85.2
	09/09/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	86.3
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	103
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	86.7
	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	85.5
	02/21/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	90.7
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	88.6
	02/07/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	84.4
	08/08/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	90.5
	02/19/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	88.0
	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	90.2
MW-3	06/24/05	-	0.00166	0.0026	0.00143	0.0137	0.01939	420
	11/14/05	-	0.0037	<0.001	0.00132	0.006	0.01102	310
	03/22/06	-	0.0028	<0.001	0.00397	0.0047	0.01147	285
	09/22/06	-	0.00232	<0.001	<0.001	<0.001	0.00232	330
	03/16/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	297
	06/06/07	-	0.00114	<0.001	<0.001	<0.001	0.00114	302
	09/28/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	279
	12/18/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	<200
	03/28/08	2.51	-	-	-	-	-	-

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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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-3 Cont.	06/26/08	2.91	-	-	-	-	-	-
	09/22/08	2.97	-	-	-	-	-	-
	12/04/08	3.04	-	-	-	-	-	-
	03/12/09	3.04	-	-	-	-	-	-
	06/22/09	3.09	-	-	-	-	-	-
	09/16/09	2.97	-	-	-	-	-	-
	12/09/09	3.05	-	-	-	-	-	-
	03/10/10	3.10	-	-	-	-	-	-
	06/08/10	2.97	-	-	-	-	-	-
	09/13/10	3.11	-	-	-	-	-	-
	12/14/10	3.04	-	-	-	-	-	-
	03/10/11	3.05	-	-	-	-	-	-
	06/13/11	3.08	-	-	-	-	-	-
	09/19/11	3.08	-	-	-	-	-	-
	12/12/11	3.22	-	-	-	-	-	-
	03/22/12	3.22	-	-	-	-	-	-
	04/06/12	3.22	-	-	-	-	-	-
	06/20/12	3.24	-	-	-	-	-	-
	09/24/12	3.26	-	-	-	-	-	-
	12/14/12	3.29	-	-	-	-	-	-
	03/27/13	3.24	-	-	-	-	-	-
	06/07/13	3.32	-	-	-	-	-	-
	09/19/13	NG	-	-	-	-	-	-
	12/27/13	3.18	-	-	-	-	-	-
	03/27/14	2.87	-	-	-	-	-	-
	06/19/14	2.35	-	-	-	-	-	-
	09/26/14	2.74	-	-	-	-	-	-
	12/16/14	2.83	-	-	-	-	-	-
	03/24/15	0.36	-	-	-	-	-	-
	04/09/15	2.69	-	-	-	-	-	-

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Table 2
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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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-3 Cont.	06/18/15	2.33	-	-	-	-	-	-
	09/09/15	2.77	-	-	-	-	-	-
	12/18/15	2.16	-	-	-	-	-	-
	03/16/16	1.66	-	-	-	-	-	-
	06/30/16	2.85	-	-	-	-	-	-
	09/09/16	2.17	-	-	-	-	-	-
	12/07/16	2.19	-	-	-	-	-	-
	03/01/17	2.33	-	-	-	-	-	-
	08/29/17	3.03	-	-	-	-	-	-
	02/20/18	1.82	-	-	-	-	-	-
	08/23/18	1.84	-	-	-	-	-	-
	02/07/19	2.18	-	-	-	-	-	-
	08/08/19	1.45	-	-	-	-	-	-
	02/19/20	0.09	-	-	-	-	-	-
	08/20/20	0.39	-	-	-	-	-	-
MW-4	09/22/06	-	<0.001	<0.001	<0.001	<0.001	<0.001	606
	03/16/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	462
	06/06/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	480
	09/28/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	638
	12/18/07	-	<0.001	<0.001	<0.001	<0.001	<0.001	238
	03/28/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	510
	06/26/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	1,080
	09/22/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	932
	12/04/08	-	0.00068	<0.0005	<0.0005	<0.001	<0.001	761
	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	383
	06/22/09	-	0.00051	<0.001	<0.001	<0.003	<0.003	717
	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	773
	12/09/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	711
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	749
	06/08/10	-	0.00069	<0.001	<0.001	<0.003	<0.003	616

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 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-4 Cont.	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	450
	12/14/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	355
	03/10/11	-	0.00078	<0.001	<0.001	<0.003	0.00078	256
	06/13/11	-	0.00038	<0.00020	<0.00030	<0.00023	0.00038	520
	09/19/11	-	0.00051 J	<0.00030	<0.00020	<0.00023	0.00051 J	630
	12/12/11	-	0.00091 J	<0.00030	<0.00020	<0.00023	0.00091 J	660
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	161
	06/20/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	668
	09/24/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	708
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	349
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	565
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	388
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	378
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	499
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	537
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	545
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	223
	12/16/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	465
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	477
	06/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	750
	09/09/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	683
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	526
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	525
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	471
	09/09/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	568
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	666
Dup	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	678
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	487
	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	517
	02/21/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	501

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Table 2
 OXY USA, Inc.
 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
Dup	02/21/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	482
MW-4 Cont.	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	386
	02/07/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	602
	08/08/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	555
	02/19/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	527
	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	509
MW-5	09/22/06	-	<0.001	<0.001	<0.001	<0.001	<0.001	95.7
	03/16/07	-	0.00375	<0.001	<0.001	<0.001	0.00375	102
	06/06/07	-	0.00277	<0.001	<0.001	<0.001	0.00277	126
	09/28/07	-	0.0132	<0.001	<0.001	<0.001	0.0132	31.7
	12/18/07	-	0.0290	<0.001	<0.001	0.0024	0.0314	<200
	03/28/08	-	0.0018	<0.001	<0.001	<0.001	0.0018	85.4
	06/26/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	132
	09/22/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	90.9
	12/04/08	-	<0.0005	<0.0005	<0.0005	<0.001	<0.001	124
	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	90.5
Dup	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	82.7
	06/22/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	82.6
Dup	06/22/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	92.2
	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	77.1
Dup	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	104
	12/09/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	78.5
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	79.2
Dup	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	77.4
	06/08/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	80.3
	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	81.8
	12/14/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	73.3
	03/10/11	-	<0.001	<0.001	<0.001	<0.003	<0.003	72.6
	06/13/11	-	<0.00014	<0.00020	<0.00030	<0.00023	<0.00030	80
	09/19/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	76

212C-MD-02090

Table 2
 OXY USA, Inc.
 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-5 Cont.	12/12/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	81
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	116
	06/20/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	103
	09/24/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	139
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	108
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	151
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	153
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	150
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	159
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	112
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	110
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	102
	12/16/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	109
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	92.3
	06/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	108
	09/09/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	116
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	125
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	99.6
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	77.2
	09/09/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	74.7
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	89.1
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	75.0
Dup	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	41.5
	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	75.9
	02/21/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	117
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	103
	02/07/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	157
	08/08/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	85
	02/19/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	110
	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	128

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Table 2
 OXY USA, Inc.
 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-6	10/29/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	617
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	581
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	639
Dup	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	646
	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	429
Dup	06/30/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	446
	09/09/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	724
Dup	09/09/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	732
	12/07/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	758
	03/03/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	485
	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	914
Dup	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	953
	02/21/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	1,030
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	1,110
	02/07/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	1,000
	08/08/19	-	<0.006	<0.005	<0.005	<0.005	<0.006	887
	02/19/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	564
Dup	02/19/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	578
	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	602
Dup	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	600
TMW-7	10/29/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	102
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	102
RW-1	06/13/11	-	-	-	-	-	-	-
	09/19/11	1.29	-	-	-	-	-	-
	12/12/11	3.13	-	-	-	-	-	-
	04/06/12	3.16	-	-	-	-	-	-
	06/20/12	3.20	-	-	-	-	-	-
	09/24/12	3.22	-	-	-	-	-	-
	12/14/12	2.09	-	-	-	-	-	-
	03/27/13	0.05	-	-	-	-	-	-

Table 2
 OXY USA, Inc.
 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
RW-1 Cont.	06/07/13	2.91	-	-	-	-	-	-
	09/19/13	NG	-	-	-	-	-	-
	12/27/13	3.03	-	-	-	-	-	-
	03/27/14	3.07	-	-	-	-	-	-
	06/19/14	3.03	-	-	-	-	-	-
	09/26/14	2.99	-	-	-	-	-	-
	12/16/14	2.97	-	-	-	-	-	-
	03/24/15	2.76	-	-	-	-	-	-
	04/09/15	2.80	-	-	-	-	-	-
	06/18/15	2.79	-	-	-	-	-	-
	09/09/15	3.13	-	-	-	-	-	-
	12/18/15	2.20	-	-	-	-	-	-
	03/16/16	2.36	-	-	-	-	-	-
	06/30/16	2.38	-	-	-	-	-	-
	09/09/16	2.42	-	-	-	-	-	-
	12/07/16	2.47	-	-	-	-	-	-
	03/01/17	2.35	-	-	-	-	-	-
	08/29/17	2.46	-	-	-	-	-	-
	02/20/18	2.29	-	-	-	-	-	-
	08/23/18	2.49	-	-	-	-	-	-
	02/07/19	2.47	-	-	-	-	-	-
	08/08/19	2.52	-	-	-	-	-	-
	02/19/20	2.67	-	-	-	-	-	-
	08/20/20	1.01	-	-	-	-	-	-
RW-2	06/13/11	-	-	-	-	-	-	-
	09/19/11	-	-	-	-	-	-	-
	12/12/11	-	-	-	-	-	-	-
	04/06/12	0.05	-	-	-	-	-	-
	06/20/12	0.12	-	-	-	-	-	-
	09/24/12	0.24	-	-	-	-	-	-

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Table 2
 OXY USA, Inc.
 E.C. Hill A, B & C 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			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
RW-2 Cont.	12/14/12	0.12	-	-	-	-	-	-
	03/27/13	0.28	-	-	-	-	-	-
	06/07/13	0.41	-	-	-	-	-	-
	09/19/13	NG	-	-	-	-	-	-
	12/27/13	0.30	-	-	-	-	-	-
	03/27/14	0.33	-	-	-	-	-	-
	06/19/14	0.43	-	-	-	-	-	-
	09/26/14	0.52	-	-	-	-	-	-
	12/16/14	0.48	-	-	-	-	-	-
	03/24/15	0.61	-	-	-	-	-	-
	06/18/15	0.80	-	-	-	-	-	-
	09/09/15	0.01	-	-	-	-	-	-
	12/18/15	0.75	-	-	-	-	-	-
	03/16/16	0.89	-	-	-	-	-	-
	06/30/16	0.77	-	-	-	-	-	-
	09/09/16	0.78	-	-	-	-	-	-
	12/07/16	0.83	-	-	-	-	-	-
	03/01/17	2.24	-	-	-	-	-	-
	08/29/17	2.94	-	-	-	-	-	-
	02/20/18	2.72	-	-	-	-	-	-
	08/23/18	2.56	-	-	-	-	-	-
	02/07/19	6.04	-	-	-	-	-	-
	08/08/19	2.52	-	-	-	-	-	-
	02/19/20	1.75	-	-	-	-	-	-
	08/20/20	1.06	-	-	-	-	-	-

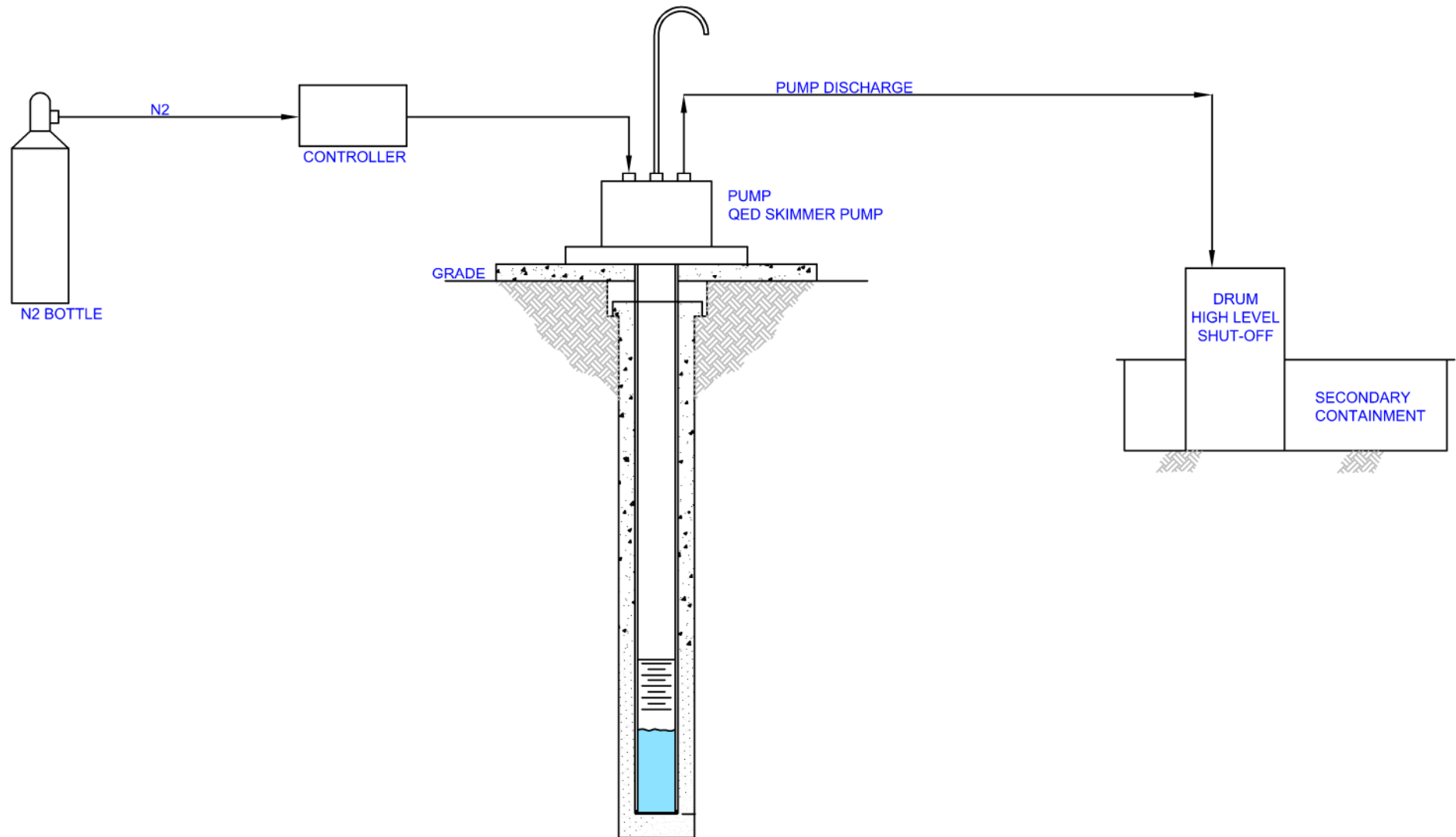
(-) Not Analyzed

NM - Not Measured

NG - Not Gauged, Instrument Malfunction

Appendix A

Recovery System Schematics

MW-1

TETRA TECH
 901 W. WALL STREET STE. 100
 MIDLAND, TEXAS
 (432) 682-4559

GLENN SPRINGS HOLDINGS

PFD SCHEMATIC/PRODUCT WELLS

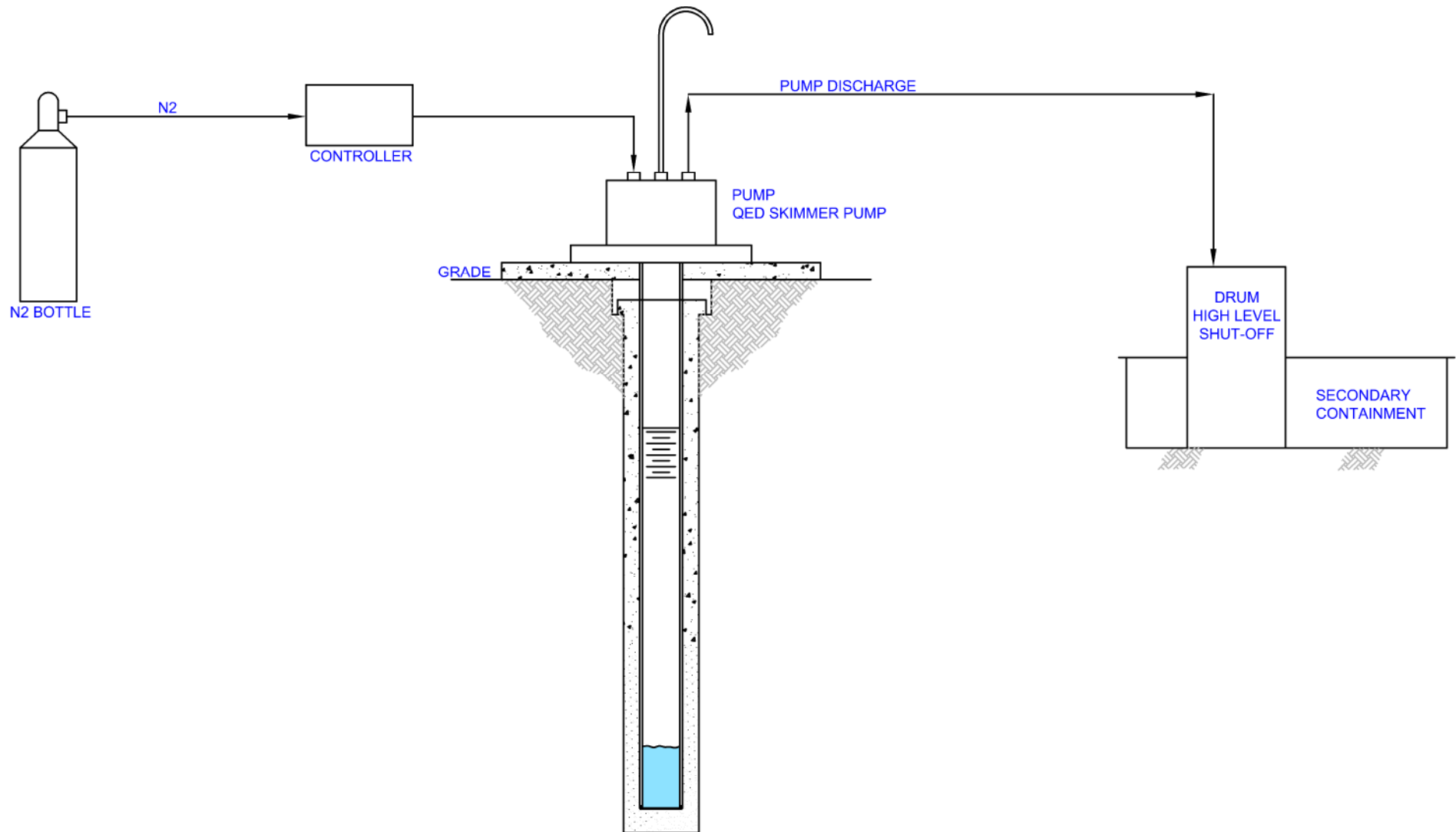
E.C. HILL A, B, C, TANK BATTERY
 LEA COUNTY, NEW MEXICO

Project: 212C-MD-02090

Date: 4/24/20

File: GLENN SPRINGS HOLDINGS A,B,C TB DETAIL MW1

REV.

RW-1

TETRA TECH
 901 W. WALL STREET STE. 100
 MIDLAND, TEXAS
 (432) 682-4559

GLENN SPRINGS HOLDINGS

PFD SCHEMATIC/PRODUCT WELLS

E.C. HILL A, B, C, TANK BATTERY
 LEA COUNTY, NEW MEXICO

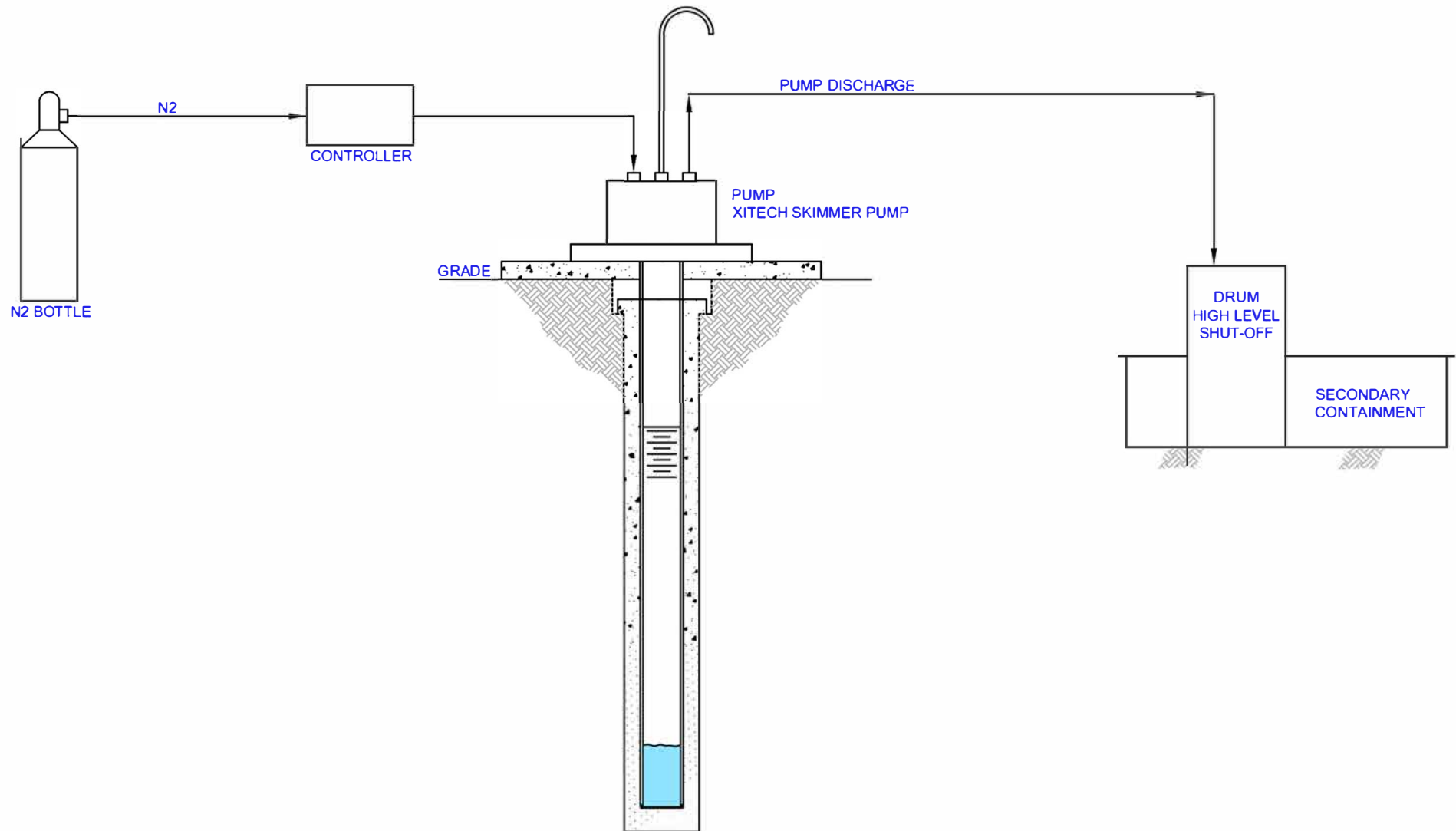
Project: 212C-MD-02090

Date: 4/24/20

File: GLENN SPRINGS HOLDINGS A,B,C.TB DETAL RW2

REV.

RW-2



TETRA TECH
901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

PFD SCHEMATIC/PRODUCT WELLS

E.C. HILL A, B, C, TANK BATTERY
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02090

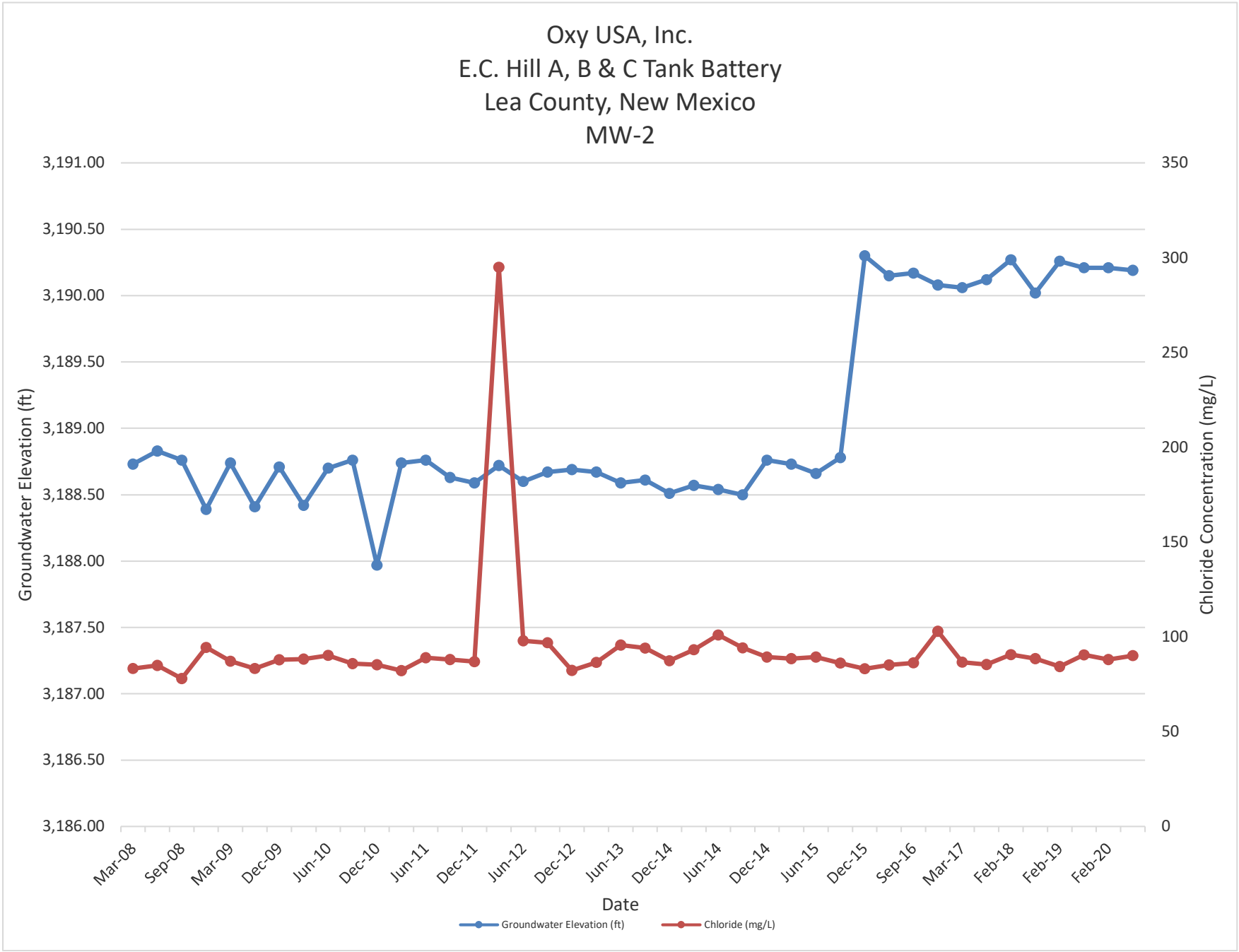
Date: 4/24/20

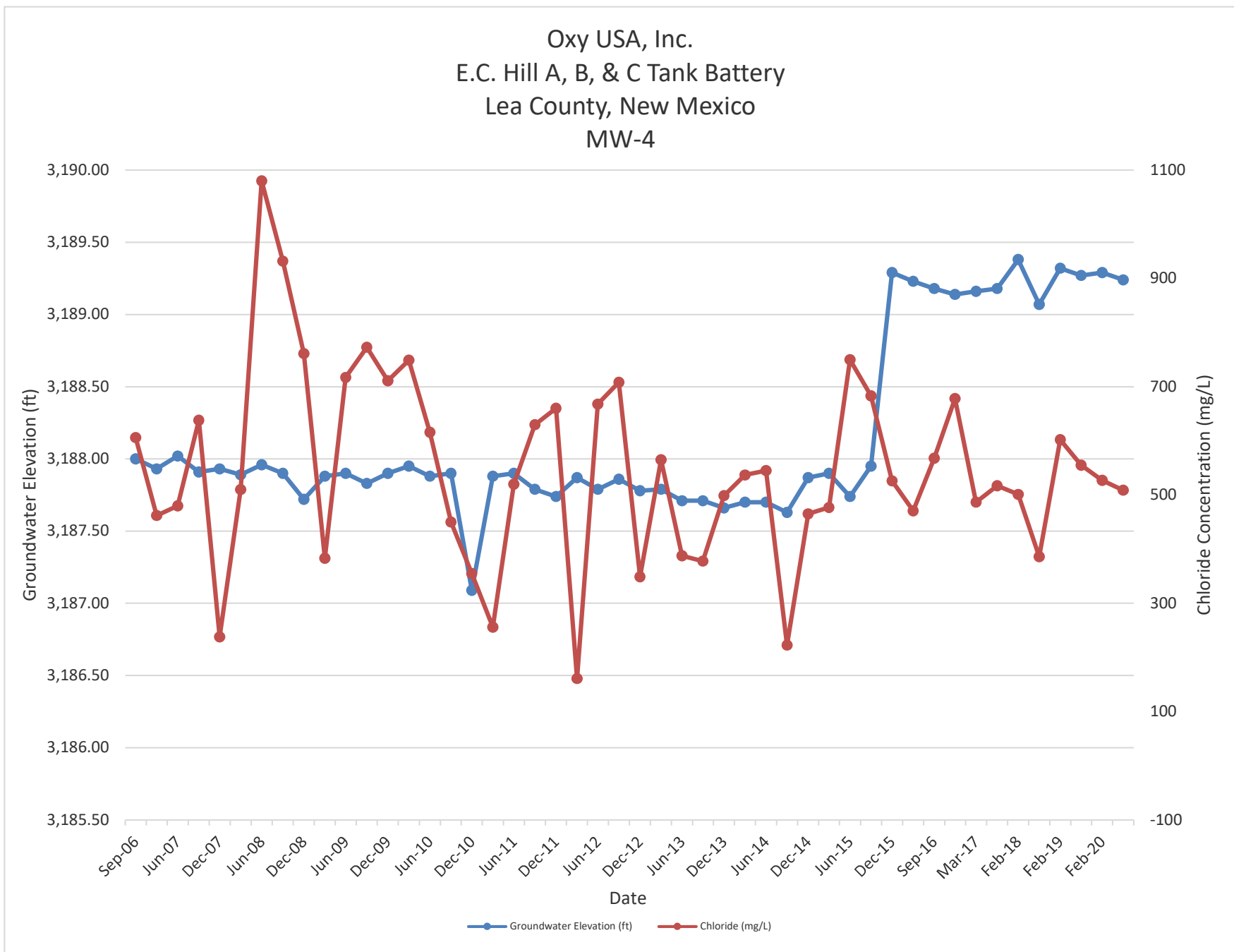
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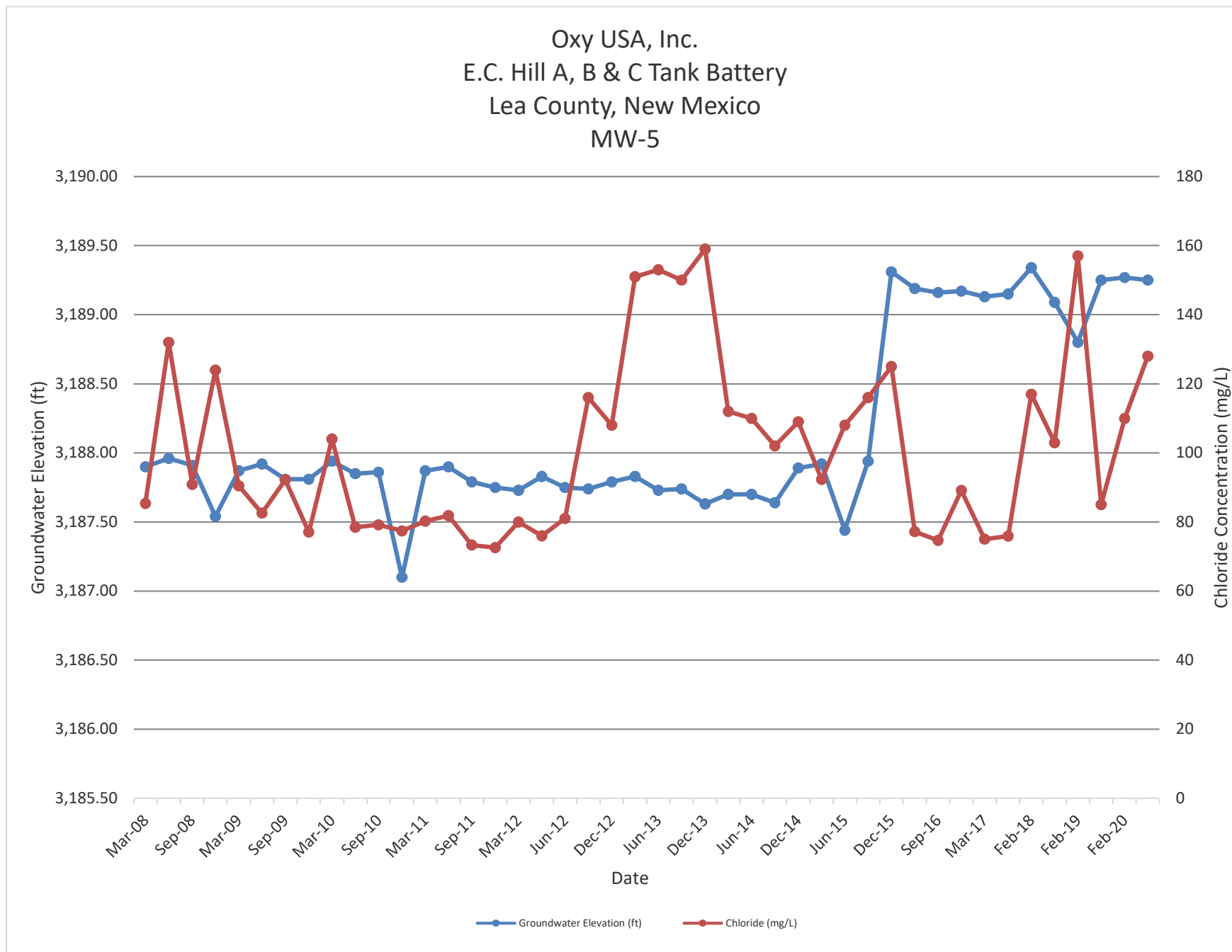
REV.

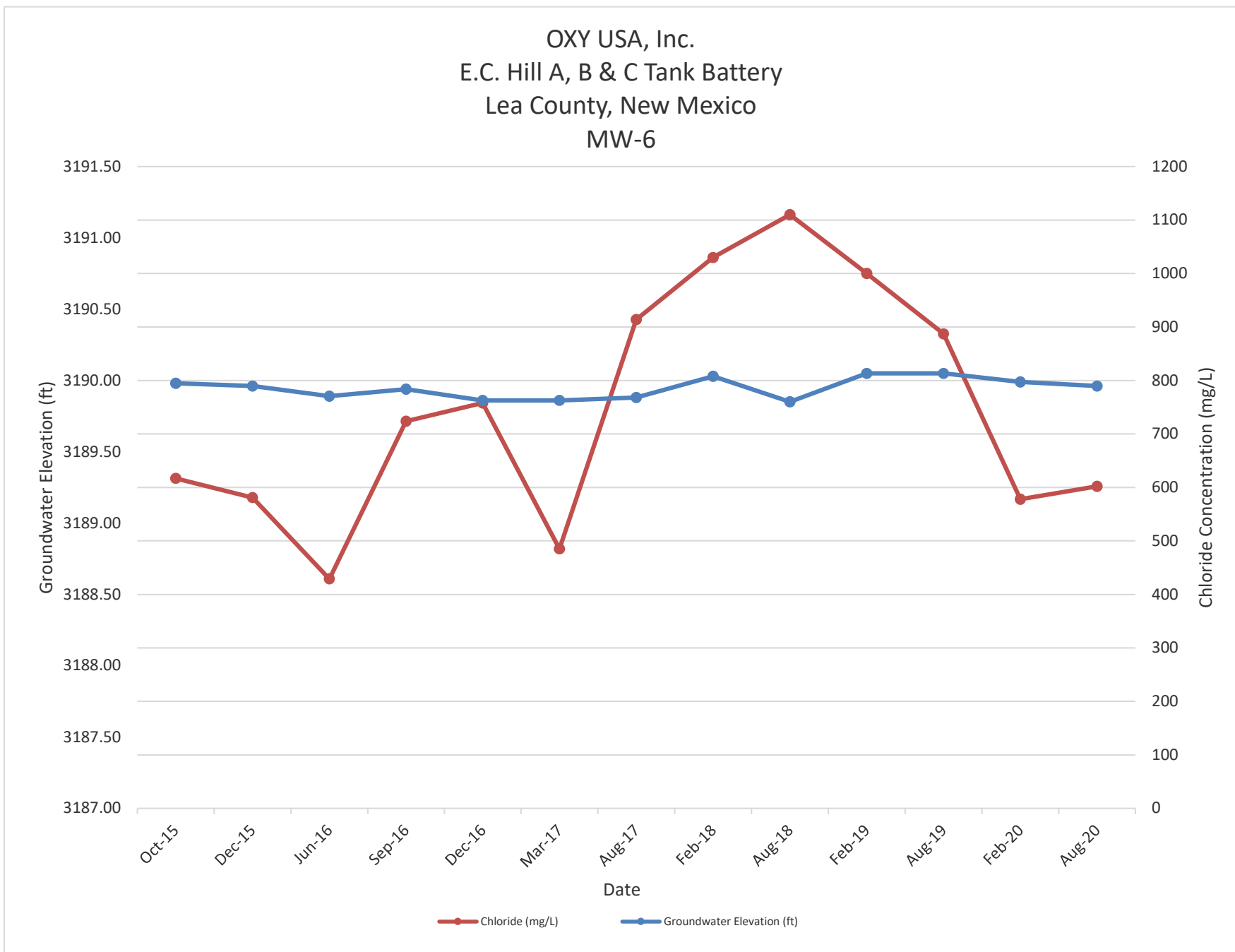
Appendix B

Groundwater Elevation and Chloride Concentration Graphs









Appendix C

Groundwater Laboratory Reports



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

February 28, 2020

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

Work Order: **HS20020922**

Laboratory Results for: **55628DM GSHI PXP Hill E.C. ABC TB**

Dear Mike,

ALS Environmental received 6 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: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
Work Order: HS20020922

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20020922-01	MW-2	Groundwater		19-Feb-2020 13:40	21-Feb-2020 08:35	☐
HS20020922-02	MW-4	Groundwater		19-Feb-2020 12:10	21-Feb-2020 08:35	☐
HS20020922-03	MW-5	Groundwater		19-Feb-2020 12:55	21-Feb-2020 08:35	☐
HS20020922-04	MW-6	Groundwater		19-Feb-2020 11:45	21-Feb-2020 08:35	☐
HS20020922-05	DUP	Groundwater		19-Feb-2020 00:00	21-Feb-2020 08:35	☐
HS20020922-06	Trip Blank	Water	CG 011520 -373	19-Feb-2020 00:00	21-Feb-2020 08:35	☐

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
Work Order: HS20020922

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R356810

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

WetChemistry by Method E300

Batch ID: R357256

Sample ID: HS20021195-05MS

- MS and MSD are for an unrelated sample (Chloride)

Sample ID: HS20021199-01MS

- MS and MSD are for an unrelated sample (Chloride)
-

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-2
 Collection Date: 19-Feb-2020 13:40

ANALYTICAL REPORT

WorkOrder:HS20020922
 Lab ID:HS20020922-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	22-Feb-2020 10:00
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 10:00
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 10:00
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 10:00
Surr: 1,2-Dichloroethane-d4	98.2			70-126	%REC	1	22-Feb-2020 10:00
Surr: 4-Bromofluorobenzene	96.2			82-124	%REC	1	22-Feb-2020 10:00
Surr: Dibromofluoromethane	99.5			77-123	%REC	1	22-Feb-2020 10:00
Surr: Toluene-d8	99.4			82-127	%REC	1	22-Feb-2020 10:00
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	88.0		2.00	5.00	mg/L	10	28-Feb-2020 10:25

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

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-4
 Collection Date: 19-Feb-2020 12:10

ANALYTICAL REPORT

WorkOrder:HS20020922
 Lab ID:HS20020922-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	22-Feb-2020 10:24
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 10:24
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 10:24
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 10:24
Surr: 1,2-Dichloroethane-d4	99.7			70-126	%REC	1	22-Feb-2020 10:24
Surr: 4-Bromofluorobenzene	94.6			82-124	%REC	1	22-Feb-2020 10:24
Surr: Dibromofluoromethane	99.3			77-123	%REC	1	22-Feb-2020 10:24
Surr: Toluene-d8	100.0			82-127	%REC	1	22-Feb-2020 10:24
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	527		2.00	5.00	mg/L	10	28-Feb-2020 10:43

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

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-5
 Collection Date: 19-Feb-2020 12:55

ANALYTICAL REPORT

WorkOrder:HS20020922
 Lab ID:HS20020922-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	22-Feb-2020 10:49
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 10:49
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 10:49
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 10:49
Surr: 1,2-Dichloroethane-d4	109			70-126	%REC	1	22-Feb-2020 10:49
Surr: 4-Bromofluorobenzene	96.5			82-124	%REC	1	22-Feb-2020 10:49
Surr: Dibromofluoromethane	102			77-123	%REC	1	22-Feb-2020 10:49
Surr: Toluene-d8	101			82-127	%REC	1	22-Feb-2020 10:49
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	110		2.00	5.00	mg/L	10	28-Feb-2020 11:01

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

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-6
 Collection Date: 19-Feb-2020 11:45

ANALYTICAL REPORT

WorkOrder:HS20020922
 Lab ID:HS20020922-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	22-Feb-2020 11:13
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 11:13
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 11:13
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 11:13
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	1	22-Feb-2020 11:13
Surr: 4-Bromofluorobenzene	97.8			82-124	%REC	1	22-Feb-2020 11:13
Surr: Dibromofluoromethane	102			77-123	%REC	1	22-Feb-2020 11:13
Surr: Toluene-d8	100			82-127	%REC	1	22-Feb-2020 11:13
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	564		2.00	5.00	mg/L	10	28-Feb-2020 11:55

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

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: DUP
 Collection Date: 19-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20020922
 Lab ID:HS20020922-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	22-Feb-2020 11:37
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 11:37
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 11:37
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 11:37
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	1	22-Feb-2020 11:37
Surr: 4-Bromofluorobenzene	96.7			82-124	%REC	1	22-Feb-2020 11:37
Surr: Dibromofluoromethane	102			77-123	%REC	1	22-Feb-2020 11:37
Surr: Toluene-d8	98.4			82-127	%REC	1	22-Feb-2020 11:37
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	578		2.00	5.00	mg/L	10	28-Feb-2020 12:13

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

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: Trip Blank
 Collection Date: 19-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20020922
 Lab ID:HS20020922-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	22-Feb-2020 09:11
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 09:11
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 09:11
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 09:11
Surr: 1,2-Dichloroethane-d4	97.3			70-126	%REC	1	22-Feb-2020 09:11
Surr: 4-Bromofluorobenzene	96.0			82-124	%REC	1	22-Feb-2020 09:11
Surr: Dibromofluoromethane	98.5			77-123	%REC	1	22-Feb-2020 09:11
Surr: Toluene-d8	99.6			82-127	%REC	1	22-Feb-2020 09:11

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

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20020922

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: Water	
HS20020922-06	Trip Blank	19 Feb 2020 00:00			22 Feb 2020 09:11	1
Batch ID: R356810 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20020922-01	MW-2	19 Feb 2020 13:40			22 Feb 2020 10:00	1
HS20020922-02	MW-4	19 Feb 2020 12:10			22 Feb 2020 10:24	1
HS20020922-03	MW-5	19 Feb 2020 12:55			22 Feb 2020 10:49	1
HS20020922-04	MW-6	19 Feb 2020 11:45			22 Feb 2020 11:13	1
HS20020922-05	DUP	19 Feb 2020 00:00			22 Feb 2020 11:37	1
Batch ID: R357256 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20020922-01	MW-2	19 Feb 2020 13:40			28 Feb 2020 10:25	10
HS20020922-02	MW-4	19 Feb 2020 12:10			28 Feb 2020 10:43	10
HS20020922-03	MW-5	19 Feb 2020 12:55			28 Feb 2020 11:01	10
HS20020922-04	MW-6	19 Feb 2020 11:45			28 Feb 2020 11:55	10
HS20020922-05	DUP	19 Feb 2020 00:00			28 Feb 2020 12:13	10

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20020922

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: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20020922

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	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:		HS20020922-01		HS20020922-02		HS20020922-03		HS20020922-04		
		HS20020922-05		HS20020922-06						

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20020922

QC BATCH REPORT

Batch ID: R357256 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: WBLKW2-022720	Units: mg/L		Analysis Date: 28-Feb-2020 01:03					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492855		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: WLCSW2-022720	Units: mg/L		Analysis Date: 28-Feb-2020 01:21					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492856		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.88	0.500	20	0	99.4	90 - 110			
LCSD	Sample ID: WLCSDW2-022720	Units: mg/L		Analysis Date: 28-Feb-2020 01:39					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492857		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.92	0.500	20	0	99.6	90 - 110	19.88	0.211	20
MS	Sample ID: HS20021199-01MS	Units: mg/L		Analysis Date: 28-Feb-2020 08:54					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492881		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	243.6	0.500	10	237.6	60.5	80 - 120			SEO
MS	Sample ID: HS20021195-05MS	Units: mg/L		Analysis Date: 28-Feb-2020 02:34					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492860		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	98.71	0.500	10	91.11	76.0	80 - 120			SO
MSD	Sample ID: HS20021199-01MSD	Units: mg/L		Analysis Date: 28-Feb-2020 09:12					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492882		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	242.6	0.500	10	237.6	49.9	80 - 120	243.6	0.435	20 SEO

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20020922

QC BATCH REPORT

Batch ID: R357256 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS20021195-05MSD	Units: mg/L		Analysis Date: 28-Feb-2020 02:52						
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492861		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.23	0.500	10	91.11	81.2	80 - 120	98.71	0.526	20	O
The following samples were analyzed in this batch:										
HS20020922-01 HS20020922-02 HS20020922-03 HS20020922-04 HS20020922-05										

ALS Houston, US

Date: 28-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20020922

**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
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Houston, US

Date: 28-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: 28-Feb-20

Sample Receipt Checklist

Client Name: Glen Springs/CRA

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

Work Order: HS20020922

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:215022
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°C/1.9°C UC/C IR25		
Cooler(s)/Kit(s):	25749		
Date/Time sample(s) sent to storage:	02/21/2020 13:10		
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: 215022

Houston, TX
+1 281 530 5656Middletown, PA
+1 717 944 5541Spring City, PA
+1 610 948 4903Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168York, PA
+1 717 505 5280

Customer Information			Project Information			ALS Project Manager:											ALS Work Order #:										
Parameter/Method Request for Analysis																											
Purchase Order	4502201559 ENV 749-402-D02-110		Project Name	55628DM GSHI PXP Hill E.C. ABC TB		A	8260_W(BTEX)																				
Work Order			Project Number	55628DM (ENV749A10)		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	HS20020922 Glenn Springs Holdings, Inc. 55628DM GSHI PXP Hill E.C. ABC TB 																				
City/State/Zip	Houston, TX 77252-2148		City/State/Zip	Houston TX 77252-2148		F																					
Phone			Phone			G																					
Fax			Fax			H																					
e-Mail Address	Mike.Carmona@tetrattech.com		e-Mail Address			I																					
						J																					
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold										
1	MVV-1			Groundwa	1,8	4	X	X																			
2	MVV-2	2-19-20	1340	Groundwa	1,8	4	X	X																			
3	MVV-3			Groundwa	1,8	4	X	X																			
4	MVV-4	2-19-20	1210	Groundwa	1,8	4	X	X																			
5	MVV-5	2-19-20	1255	Groundwa	1,8	4	X	X																			
6	MVV-6	2-19-20	1145	Groundwa	1,8	4	X	X																			
7	DUP	2-19-20		Groundwa	1,8	4	X	X																			
8	Trip Blank			Water	1,8	2			X																		
9																											
10																											
Sampler(s) Please Print & Sign			Shipment Method			Required Turnaround Time: (Check Box)			Other			Results Due Date:															
Preston Porter			FedEx			☒ STD 10 Wk Days			☐ 5 Wk Days			☐ 2 Wk Days			☐ 24 Hour												
Relinquished by:			Date: 2-20-20			Time: 1630			Received by:			Notes: [GSHI PXP Hill EC ABC TB]															
Relinquished by:			Date: 2/21/2020			Time: 08:35			Received by (Laboratory):			Cooler ID: 25749															
Logged by (Laboratory):			Date:			Time:			Checked by (Laboratory):			Cooler Temp. 1.9			QC Package: (Check One Box Below)												
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												☒ Level II Std QC			☐ RRP Checklist												
												☐ Level III Std QC/Raw Data			☐ RRP Level IV												
												☐ Level IV SV-043/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 2 10 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	25749	CUSTODY SEAL		Seal Broken By:
		Date: 2-20-20	Time: 1630	SM
		Name: Houston Plaintiff	Company: Extra Lock	Date: 02/21/20

25749 FEB 21 2020



Must Deliver Next Business Day
Time and Temperature Sensitive!

25749

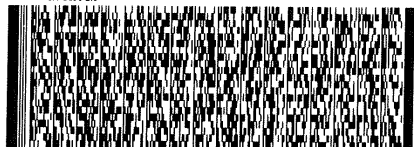
ORIGIN ID: SGRA (432) 682-4559
 MIKE CARONA
 GSHI-TETRA TECH
 901 WEST WALL STREET
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES US

SHIP DATE: 14FEB20
 ACTWGT: 1.00 LB MAN
 CRD: 300190/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# 1251 0294 5550
 0221

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

August 24, 2020

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

Work Order: **HS20080614**

Laboratory Results for: **55628DM GSHI PXP Hill E.C. ABC TB**

Dear Mike Carmona,

ALS Environmental received 6 sample(s) on Aug 14, 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: 55628DM GSHI PXP Hill E.C. ABC TB
Work Order: HS20080614

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20080614-01	MW-2	Groundwater		12-Aug-2020 11:45	14-Aug-2020 09:15	☐
HS20080614-02	MW-5	Groundwater		12-Aug-2020 11:40	14-Aug-2020 09:15	☐
HS20080614-03	MW-6	Groundwater		12-Aug-2020 10:50	14-Aug-2020 09:15	☐
HS20080614-04	DUP	Groundwater		12-Aug-2020 00:00	14-Aug-2020 09:15	☐
HS20080614-05	Trip Blank	Water	CG 070820 -186	12-Aug-2020 00:00	14-Aug-2020 09:15	☐
HS20080614-06	MW-4	Groundwater		12-Aug-2020 11:00	18-Aug-2020 09:50	☐

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
Work Order: HS20080614

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R367003

Sample ID: HS20080648-19MS

- MS is for an unrelated sample

Batch ID: R367091

Sample ID: HS20080738-02MS

- MS and MSD are for an unrelated sample

WetChemistry by Method E300

Batch ID: R367311

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

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-2
 Collection Date: 12-Aug-2020 11:45

ANALYTICAL REPORT

WorkOrder:HS20080614
 Lab ID:HS20080614-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 01:08
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 01:08
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 01:08
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 01:08
Surr: 1,2-Dichloroethane-d4	87.5			70-126	%REC	1	19-Aug-2020 01:08
Surr: 4-Bromofluorobenzene	97.6			82-124	%REC	1	19-Aug-2020 01:08
Surr: Dibromofluoromethane	90.9			77-123	%REC	1	19-Aug-2020 01:08
Surr: Toluene-d8	108			82-127	%REC	1	19-Aug-2020 01:08
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	90.2		2.00	5.00	mg/L	10	23-Aug-2020 08:45

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: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-5
 Collection Date: 12-Aug-2020 11:40

ANALYTICAL REPORT

WorkOrder:HS20080614
 Lab ID:HS20080614-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 01:32
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 01:32
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 01:32
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 01:32
Surr: 1,2-Dichloroethane-d4	87.7			70-126	%REC	1	19-Aug-2020 01:32
Surr: 4-Bromofluorobenzene	96.4			82-124	%REC	1	19-Aug-2020 01:32
Surr: Dibromofluoromethane	92.2			77-123	%REC	1	19-Aug-2020 01:32
Surr: Toluene-d8	107			82-127	%REC	1	19-Aug-2020 01:32
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	128		2.00	5.00	mg/L	10	23-Aug-2020 09:03

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: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-6
 Collection Date: 12-Aug-2020 10:50

ANALYTICAL REPORT

WorkOrder:HS20080614
 Lab ID:HS20080614-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 01:56
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 01:56
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 01:56
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 01:56
Surr: 1,2-Dichloroethane-d4	88.1			70-126	%REC	1	19-Aug-2020 01:56
Surr: 4-Bromofluorobenzene	97.7			82-124	%REC	1	19-Aug-2020 01:56
Surr: Dibromofluoromethane	93.2			77-123	%REC	1	19-Aug-2020 01:56
Surr: Toluene-d8	107			82-127	%REC	1	19-Aug-2020 01:56
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	602		4.00	10.0	mg/L	20	23-Aug-2020 09:57

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: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: DUP
 Collection Date: 12-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080614
 Lab ID:HS20080614-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 02:20
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 02:20
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 02:20
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 02:20
Surr: 1,2-Dichloroethane-d4	88.4			70-126	%REC	1	19-Aug-2020 02:20
Surr: 4-Bromofluorobenzene	95.3			82-124	%REC	1	19-Aug-2020 02:20
Surr: Dibromofluoromethane	92.1			77-123	%REC	1	19-Aug-2020 02:20
Surr: Toluene-d8	109			82-127	%REC	1	19-Aug-2020 02:20
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	600		4.00	10.0	mg/L	20	23-Aug-2020 10:15

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: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: Trip Blank
 Collection Date: 12-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080614
 Lab ID:HS20080614-05
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 00:44
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 00:44
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 00:44
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 00:44
Surr: 1,2-Dichloroethane-d4	89.0			70-126	%REC	1	19-Aug-2020 00:44
Surr: 4-Bromofluorobenzene	99.2			82-124	%REC	1	19-Aug-2020 00:44
Surr: Dibromofluoromethane	93.9			77-123	%REC	1	19-Aug-2020 00:44
Surr: Toluene-d8	105			82-127	%REC	1	19-Aug-2020 00:44

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: 55628DM GSHI PXP Hill E.C. ABC TB
 Sample ID: MW-4
 Collection Date: 12-Aug-2020 11:00

ANALYTICAL REPORT

WorkOrder:HS20080614
 Lab ID:HS20080614-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 14:52
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 14:52
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 14:52
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 14:52
Surr: 1,2-Dichloroethane-d4	89.2			70-126	%REC	1	19-Aug-2020 14:52
Surr: 4-Bromofluorobenzene	97.7			82-124	%REC	1	19-Aug-2020 14:52
Surr: Dibromofluoromethane	91.5			77-123	%REC	1	19-Aug-2020 14:52
Surr: Toluene-d8	106			82-127	%REC	1	19-Aug-2020 14:52
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	509		4.00	10.0	mg/L	20	23-Aug-2020 10:33

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: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R367003 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20080614-05	Trip Blank	12 Aug 2020 00:00			19 Aug 2020 00:44	1
Batch ID: R367003 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080614-01	MW-2	12 Aug 2020 11:45			19 Aug 2020 01:08	1
HS20080614-02	MW-5	12 Aug 2020 11:40			19 Aug 2020 01:32	1
HS20080614-03	MW-6	12 Aug 2020 10:50			19 Aug 2020 01:56	1
HS20080614-04	DUP	12 Aug 2020 00:00			19 Aug 2020 02:20	1
Batch ID: R367091 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080614-06	MW-4	12 Aug 2020 11:00			19 Aug 2020 14:52	1
Batch ID: R367311 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20080614-01	MW-2	12 Aug 2020 11:45			23 Aug 2020 08:45	10
HS20080614-02	MW-5	12 Aug 2020 11:40			23 Aug 2020 09:03	10
HS20080614-03	MW-6	12 Aug 2020 10:50			23 Aug 2020 09:57	20
HS20080614-04	DUP	12 Aug 2020 00:00			23 Aug 2020 10:15	20
HS20080614-06	MW-4	12 Aug 2020 11:00			23 Aug 2020 10:33	20

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

QC BATCH REPORT

Batch ID: R367003 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200818	Units: ug/L		Analysis Date: 19-Aug-2020 00:20					
Client ID:	Run ID: VOA6_367003	SeqNo: 5705478		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	44.9	0	50	0	89.8	70 - 130			
Surr: 4-Bromofluorobenzene	46.82	0	50	0	93.6	82 - 115			
Surr: Dibromofluoromethane	46.56	0	50	0	93.1	73 - 126			
Surr: Toluene-d8	54.73	0	50	0	109	81 - 120			

LCS	Sample ID: VLCSW-200818	Units: ug/L		Analysis Date: 18-Aug-2020 23:32					
Client ID:	Run ID: VOA6_367003	SeqNo: 5705477		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20	5.0	20	0	100	74 - 120			
Ethylbenzene	18.95	5.0	20	0	94.8	77 - 117			
Toluene	19.57	5.0	20	0	97.9	77 - 118			
Xylenes, Total	56.4	5.0	60	0	94.0	75 - 122			
Surr: 1,2-Dichloroethane-d4	48.5	0	50	0	97.0	70 - 130			
Surr: 4-Bromofluorobenzene	47.06	0	50	0	94.1	82 - 115			
Surr: Dibromofluoromethane	49.29	0	50	0	98.6	73 - 126			
Surr: Toluene-d8	48.83	0	50	0	97.7	81 - 120			

MS	Sample ID: HS20080648-19MS	Units: ug/L		Analysis Date: 19-Aug-2020 03:56					
Client ID:	Run ID: VOA6_367003	SeqNo: 5705485		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	26.57	5.0	20	2.304	121	70 - 127			
Ethylbenzene	24.73	5.0	20	0	124	70 - 124			
Toluene	24.9	5.0	20	0	124	70 - 123			S
Xylenes, Total	70.64	5.0	60	0	118	70 - 130			
Surr: 1,2-Dichloroethane-d4	43.55	0	50	0	87.1	70 - 126			
Surr: 4-Bromofluorobenzene	48.35	0	50	0	96.7	82 - 124			
Surr: Dibromofluoromethane	45.87	0	50	0	91.7	77 - 123			
Surr: Toluene-d8	52.7	0	50	0	105	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

QC BATCH REPORT

Batch ID: R367003 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20080648-19MSD	Units: ug/L		Analysis Date: 19-Aug-2020 04:20						
Client ID:	Run ID: VOA6_367003	SeqNo: 5705486		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	25.31	5.0	20	2.304	115	70 - 127	26.57	4.87	20	
Ethylbenzene	23.37	5.0	20	0	117	70 - 124	24.73	5.66	20	
Toluene	23.95	5.0	20	0	120	70 - 123	24.9	3.88	20	
Xylenes, Total	68.57	5.0	60	0	114	70 - 130	70.64	2.98	20	
Surr: 1,2-Dichloroethane-d4	43.68	0	50	0	87.4	70 - 126	43.55	0.306	20	
Surr: 4-Bromofluorobenzene	47.67	0	50	0	95.3	82 - 124	48.35	1.41	20	
Surr: Dibromofluoromethane	46.32	0	50	0	92.6	77 - 123	45.87	0.968	20	
Surr: Toluene-d8	51.56	0	50	0	103	82 - 127	52.7	2.18	20	
The following samples were analyzed in this batch:										
HS20080614-01 HS20080614-02 HS20080614-03 HS20080614-04 HS20080614-05										

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

QC BATCH REPORT

Batch ID: R367091 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200819	Units: ug/L		Analysis Date: 19-Aug-2020 12:04					
Client ID:	Run ID: VOA6_367091	SeqNo: 5707409		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	43.99	0	50	0	88.0	70 - 130			
Surr: 4-Bromofluorobenzene	47.44	0	50	0	94.9	82 - 115			
Surr: Dibromofluoromethane	46.07	0	50	0	92.1	73 - 126			
Surr: Toluene-d8	53.28	0	50	0	107	81 - 120			

LCS	Sample ID: VLCSW-200819	Units: ug/L		Analysis Date: 19-Aug-2020 11:16					
Client ID:	Run ID: VOA6_367091	SeqNo: 5707408		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.63	5.0	20	0	103	74 - 120			
Ethylbenzene	17.87	5.0	20	0	89.3	77 - 117			
Toluene	19.85	5.0	20	0	99.2	77 - 118			
Xylenes, Total	54.12	5.0	60	0	90.2	75 - 122			
Surr: 1,2-Dichloroethane-d4	46.51	0	50	0	93.0	70 - 130			
Surr: 4-Bromofluorobenzene	46.87	0	50	0	93.7	82 - 115			
Surr: Dibromofluoromethane	47.72	0	50	0	95.4	73 - 126			
Surr: Toluene-d8	48.49	0	50	0	97.0	81 - 120			

MS	Sample ID: HS20080738-02MS	Units: ug/L		Analysis Date: 19-Aug-2020 13:40					
Client ID:	Run ID: VOA6_367091	SeqNo: 5707411		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	25.62	5.0	20	0	128	70 - 127			S
Ethylbenzene	26.17	5.0	20	0	131	70 - 124			S
Toluene	26.33	5.0	20	0	132	70 - 123			S
Xylenes, Total	76.99	5.0	60	0	128	70 - 130			
Surr: 1,2-Dichloroethane-d4	44.85	0	50	0	89.7	70 - 126			
Surr: 4-Bromofluorobenzene	47.79	0	50	0	95.6	82 - 124			
Surr: Dibromofluoromethane	46.9	0	50	0	93.8	77 - 123			
Surr: Toluene-d8	52.45	0	50	0	105	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

QC BATCH REPORT

Batch ID: R367091 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20080738-02MSD	Units: ug/L		Analysis Date: 19-Aug-2020 14:04						
Client ID:	Run ID: VOA6_367091	SeqNo: 5707412		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.32	5.0	20	0	122	70 - 127	25.62	5.2	20	
Ethylbenzene	24.84	5.0	20	0	124	70 - 124	26.17	5.23	20	S
Toluene	25	5.0	20	0	125	70 - 123	26.33	5.2	20	S
Xylenes, Total	74.29	5.0	60	0	124	70 - 130	76.99	3.57	20	
Surr: 1,2-Dichloroethane-d4	44.24	0	50	0	88.5	70 - 126	44.85	1.39	20	
Surr: 4-Bromofluorobenzene	47.89	0	50	0	95.8	82 - 124	47.79	0.215	20	
Surr: Dibromofluoromethane	46.05	0	50	0	92.1	77 - 123	46.9	1.83	20	
Surr: Toluene-d8	52.62	0	50	0	105	82 - 127	52.45	0.326	20	

The following samples were analyzed in this batch: HS20080614-06

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

QC BATCH REPORT

Batch ID: R367311 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-082120	Units: mg/L			Analysis Date: 22-Aug-2020 20:08				
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712004		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: 24-Aug-2020 10:47				
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712034		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	19.38	0.500	20	0	96.9	90 - 110			
MS	Sample ID: HS20080723-07MS	Units: mg/L			Analysis Date: 22-Aug-2020 23:27				
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712014		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	41.53	0.500	10	31.17	104	80 - 120			
MS	Sample ID: HS20080614-02MS	Units: mg/L			Analysis Date: 23-Aug-2020 09:21				
Client ID: MW-5	Run ID: ICS-Integrion_367311		SeqNo: 5712027		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	227.2	5.00	100	127.8	99.4	80 - 120			
MSD	Sample ID: HS20080723-07MSD	Units: mg/L			Analysis Date: 22-Aug-2020 23:45				
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712015		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	40.59	0.500	10	31.17	94.3	80 - 120	41.53	2.27	20
MSD	Sample ID: HS20080614-02MSD	Units: mg/L			Analysis Date: 23-Aug-2020 09:39				
Client ID: MW-5	Run ID: ICS-Integrion_367311		SeqNo: 5712028		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	222.7	5.00	100	127.8	94.9	80 - 120	227.2	2.01	20
The following samples were analyzed in this batch:									
		HS20080614-01		HS20080614-02		HS20080614-03		HS20080614-04	
		HS20080614-06							

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55628DM GSHI PXP Hill E.C. ABC TB
WorkOrder: HS20080614

**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
µg/L	Micrograms per Liter
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: HS20080614

Date/Time Received: 14-Aug-2020 09:15

Client Name: Glen Springs/CRA

Received by: Paresh M. Giga

Completed By: /S/ Jared R. Makan	14-Aug-2020 16:00	Reviewed by: /S/ Corey Grandits	18-Aug-2020 13:19
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 ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:225070, 225069
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 IR31		
Cooler(s)/Kit(s):	46101		
Date/Time sample(s) sent to storage:	08/14/2020 16:00		
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:	MW-4 sample listed on COC, not received.		

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

ALS Houston, US

Date: 24-Aug-20

Sample Receipt Checklist

Work Order ID: HS20080614

Date/Time Received: 14-Aug-2020 09:15

Client Name: Glen Springs/CRA

Received by: Paresh M. Giga

Completed By: <u>/S/ Niles D. Ranchod</u>	18-Aug-2020 18:08	Reviewed by: <u>/S/ Dane J. Wacasey</u>	20-Aug-2020 15:12
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 ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
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):

1.2C /UC/C IR # 31

Cooler(s)/Kit(s):

45713

Date/Time sample(s) sent to storage:

08/18/2020 19:00

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: Missing Sample Rec 8/18/2020 09:50

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 2

COC ID: 225070

HS20080614

Glenn Springs Holdings, Inc.
55628DM GSHI PXP Hill E.C. ABC TBon, WV
8

10



Customer Information			Project Information			ALS Project Manager:													
Purchase Order	4502201559 ENV 749-402-D02-110		Project Name	55628DM GSHI PXP Hill E.C. ABC TB		A	8260_W(BTEX)												
Work Order			Project Number	55628DM (ENV749A10)		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													
City/State/Zip	Houston, TX 77252-2148		City/State/Zip	Houston TX 77252-2148		F													
Phone			Phone			G													
Fax			Fax			H													
e-Mail Address	Mike.Carmona@tetrattech.com		e-Mail Address			I													
						J													

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1			Groundwa	1.8	4	X	X									
2	MW-2	8-12-20	1145	Groundwa	1.8	4	X	X									
3	MW-3			Groundwa	1.8	4	X	X									
4	MW-4	8-12-20	1100	Groundwa	1.8	4	X	X									
5	MW-5	8-12-20	1140	Groundwa	1.8	4	X	X									
6	MW-6	8-12-20	1050	Groundwa	1.8	4	X	X									
7	MW-7			Groundwa	1.8	4	X	X									
8	RIW-1			Groundwa	1.8	4	X	X									
9	RIW-2			Groundwa	1.8	4	X	X									
10	DUP	8-12-20		Groundwa	1.8	4	X	X									

Sampler(s) Please Print & Sign <i>Preston Paterist</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:	Date: 8-12-20	Time: 1630	Received by:			Notes: [GSHI PXP Hill EC ABC TB]				
Relinquished by:	Date: 08-13-20	Time: 9:15	Received by (Laboratory):			Cooler ID: 46101				
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			Cooler Temp: 10.2				
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 Date ☐ TRRP Level IV ☐ Level IV SWB4 B/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.

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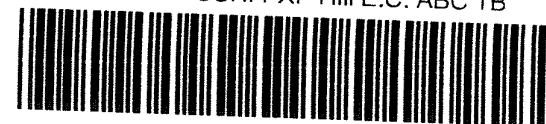
Chain of Custody Form

HS20080614

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

Page 2 of 2

COC ID: 225069

Glenn Springs Holdings, Inc.
55628DM GSHI PXP Hill E.C. ABC TB

Customer Information				ALS Project Manager:				Project Information														
Purchase Order	4502201559 ENV 749-402-D02-110			Project Name	55628DM GSHI PXP Hill E.C. ABC TB			A	8260_W(BTEX)													
Work Order				Project Number	55628DM (ENV749A10)			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														
								G														
City/State/Zip	Houston, TX 77252-2148			City/State/Zip	Houston TX 77252-2148			H														
Phone				Phone				I														
Fax				Fax				J														
e-Mail Address	Mike.Carmona@tetratech.com			e-Mail Address																		

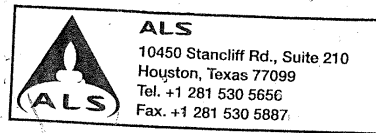
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Trip Blank			Water	1,8	2			X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
<i>Preston Biterick</i> <i>Atch</i>		FedEx		☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour					
Relinquished by:	Date: 8-12-20	Time: 1630	Received by:	Notes: [GSHI PXP Hill EC ABC TB]					
Relinquished by:	Date: 08-13-20	Time: 9:15	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	46101	0.2	☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Date ☐ 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

- Notes:
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 - Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 - The Chain of Custody is a legal document. All information must be completed accurately.

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CUSTODY SEAL		Seal Broken By:
Date: 8-12-20	Time: 1030	CS 8/12
Name: Peyton R. Ransom		
Company: JE		

FedEx
 TRK# 1891 8879 0543
 0221

THU - 13 AUG 10:30A
 PRIORITY OVERNIGHT

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 16682

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number: 16682
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Groundwater Sampling Report: Content satisfactory 1. Continued semi-annual groundwater monitoring and PSH recovery system operation 2. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/28/2021