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August 16, 2021

Mr. Bradford Billings
Environmental Bureau
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Semi-Annual Groundwater Monitoring Report (January to June 2021)
Chevron Dollarhide Groundwater Remediation Site
Andrews County, Texas
RRC OCP No. 08-1048
NMOCD RP No. 1R-3944

Dear Mr. Billings:

Chevron Environmental Management and Real Estate Company (CEMREC) submits herein to the Railroad Commission of Texas (RRC) the *Semi-Annual Groundwater Monitoring Report (January to June 2021)* for the Chevron Dollarhide Oil Field Unit located in Andrews County, Texas (Site). This report was prepared by GHD Services Inc. (GHD), on behalf of CEMREC, to document groundwater monitoring activities performed at the Site during the above referenced reporting period.

If you have any questions regarding this submittal, please contact me at (832) 854-5601 or Nick Casten of GHD at (225) 296-6513.

Respectfully,
Chevron Environmental Management and Real Estate Company
on behalf of Chevron U.S.A. Inc.

Jason Michelson

Jason Michelson

Encl.

cc: Kent Stallings – RRC Site Remediation Section
Nick Casten – GHD

APPROVED
By Nelson Velez at 8:37 am, Dec 29, 2021

Review of Semi-Annual Groundwater Monitoring Report (January to June 2021)
Report: Content satisfactory

1. Follow recommendations stated within First Half 2021 Groundwater Monitoring Summary Report.
a. Continue conducting quarterly monitoring of the monitor wells installed in 2019 and 2020
b. Continue collecting all viable wells in the groundwater monitoring system semi-annually

Semi-Annual Groundwater Monitoring Report (January to June 2021)

Dollarhide Oil Field Unit
Andrews County, Texas
RRC OCP No. 08-1048
OCD RP No. 1R-3944

Chevron Environmental Management and Real Estate Company

August 16, 2021

→ The Power of Commitment

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1. Introduction

GHD Services Inc. (GHD), on behalf of Chevron Environmental Management and Real Estate Company (CEMREC), submits herein to the Railroad Commission of Texas (RRC) the *Semi-Annual Groundwater Monitoring Report (January to June 2021)* for the Dollarhide Oil Field Unit located in Andrews County, Texas (Site). The latitude/longitude coordinates for the Site are 32º 08' 45.60" N and 103º 03' 20.12" W, and a vicinity map showing the Site location is included as Figure 1. This report presents a summary and evaluation of the annual groundwater monitoring data collected in the first half of 2021.

2. Background

It is believed that historical operations at the Site have contributed to elevated chloride concentrations in groundwater in the Ogallala Aquifer. The Site was discovered as an oil and gas production field in 1945 and, over the years, was owned and operated and/or leased by various companies that disposed of excess produced water and drilling fluids into pits. The use of pits for water disposal ceased in 1967, and the Site operators began using an injection system for disposal. In 1971, the first evidence of elevated chloride concentrations in groundwater was identified in Tract 26, and then in 1974 in Tract 45. Groundwater assessment was initiated in 1974, and groundwater recovery was initiated in 1994 by Union Oil Company of California (Unocal).

Representatives of Unocal and the RRC participated in a meeting on June 2, 1994, to discuss the installation of 24 recovery wells located in Texas along the Texas and New Mexico State Line to remove chloride-impacted groundwater from the Ogallala aquifer. Unocal received RRC approval of the recovery system in written correspondence on July 7, 1994. Since 1994, two additional recovery wells were installed, totaling 26 recovery wells that recovered groundwater from the Site. The recovered groundwater was pumped into two on-Site injection wells for oil reservoir pressure maintenance. Chevron Corporation purchased Unocal in August 2005. Since that time, Chevron U.S.A., Inc. (Chevron) continued to operate the groundwater recovery system until the system shutdown in November 2017, with concurrence from the RRC and New Mexico Oil Conservation Division (OCD).

2.1.1 Former Pits

Prior to the 1970s, it was an accepted practice in oil field operations to store produced water in pits adjacent to well locations. After livestock water wells in the vicinity of the Site began exhibiting elevated chloride concentrations, soil borings were installed in all former pit locations to assess possible chlorides in soil leaching to groundwater. Historical aerial photographs were reviewed to assess potential source areas. A 1955 aerial photograph identified the presence of approximately 84 former produced water (brine) pits adjacent to Site well locations. A large-scale evaporation pit located to the northwest of the existing gas plant that had been utilized to store mixed brine was identified as a potential source area. Soil samples were collected from various depths within the former pits and were submitted for laboratory analysis of chlorides. Former pit locations with soil chloride concentrations less than 700 parts per million (ppm) were determined not to be potential source areas and were left in place. The former pit locations with soil chloride concentrations greater than 700 ppm were determined to be potential source areas, and Unocal capped the pits with a geosynthetic clay liner to prevent any further leaching of chlorides.

2.1.2 Light Non-Aqueous Phase Liquid

During a groundwater sampling event in January 2000, dissolved hydrocarbon constituents and light non-aqueous phase liquid (LNAPL) were detected in recovery well 44-J-WW during a routine groundwater sampling event. The LNAPL exhibited elevated concentrations of hydrocarbons in the C6-C12 range, indicative of natural gas liquids. A

north-south trending underground pipeline that contains hydrocarbon products, operated by another company (not Chevron), is located within 100 feet of monitor well 44-J-WW. Soil investigations were conducted in 2000 by Unocal and 2011 by CEMREC, to determine the source area of the release; however, no hydrocarbon impacts were detected in soil. On November 5, 2010, LNAPL was discovered in two additional recovery wells, 44-I-WW and 44-II-WW, during routine operation and maintenance. Due to the presence of LNAPL, these three wells remained inactive through November 2017, when the groundwater recovery system was shut down to prevent the introduction of LNAPL into the groundwater recovery system. The LNAPL identified in these three wells (44-J-WW, 44-I-WW, and 44-II-WW) is not located near any Chevron assets that contain hydrocarbons, and the LNAPL is believed to be associated with other third-party pipelines in the vicinity. LNAPL investigation efforts have been summarized in previous reports that have been submitted to the RRC.

3. Regulatory Framework

The RRC has regulatory jurisdiction over oil and gas production operations in the State of Texas. CEMREC has been working under the guidance of the RRC to address the groundwater chloride impacts as a result of historic operations at the Site. Under the RRC, the Site is regulated under Title 16 of the Texas Administrative Code (TAC) Chapter 3 (relating to the Oil and Gas Division) Rule §3.8(b) (Statewide Rule 8 Water Protection).

On October 13, 2015, representatives of the OCD and CEMREC participated in a meeting at the OCD office in Santa Fe, New Mexico, to discuss the installation of groundwater monitor wells on CEMREC-owned property in New Mexico to delineate and to further assess the impacts to the Site's groundwater with respect to chlorides and total dissolved solids (TDS). Subsequent to the meeting, CEMREC submitted a Release Notification and Corrective Action (C-141) Form in a written correspondence on October 28, 2015, per OCD's request, in order to establish a file for the Site. Following the 2015 meeting with the OCD, CEMREC completed groundwater investigations in 2015, 2016, and 2017 that included installation of monitor wells in Texas and New Mexico to further delineate the plume boundary.

On May 16, 2017, representatives from CEMREC and GHD met with the RRC and the OCD at their respective offices. The meeting was held via teleconference to provide a project status update to both regulatory agencies and to ensure that the regulatory agencies involved in the project are in alignment with the path forward for the Site. During the joint regulatory meeting, the current and future use of the recovery system was discussed. CEMREC informed the RRC and OCD of its intentions to temporarily shut down the groundwater recovery system in the fourth quarter of 2017, for at least one calendar year, to evaluate non-pumping aquifer and plume conditions. The RRC and OCD agreed with this approach and the groundwater recovery system was shut down in November 2017.

4. Groundwater Recovery

In the fourth quarter of 2018, representatives from CEMREC and GHD met with the RRC (November 28, 2018) and the OCD (December 13, 2018) at their respective offices. The purpose of these meetings was to provide a project status update to both regulatory agencies and discuss the path forward for the Site. During both 2018 regulatory meetings, CEMREC informed the RRC and the OCD of its intentions to permanently shut down the groundwater recovery system. The RRC and OCD both agreed with this approach, and the groundwater recovery system will remain permanently shut down.

5. Groundwater Monitoring

Groundwater sampling was initiated in 2008 at the Site on a semi-annual basis. In 2017, CEMREC initiated quarterly groundwater sampling to provide concentration data trends. Currently, groundwater monitoring at the Site is being performed on a quarterly basis, with events conducted in January, April, July, and October. The groundwater monitoring system consists of 67 monitor wells and 8 non-remedial wells screened in the Ogallala Aquifer approximately 120 feet below ground surface. Groundwater well designations are shown on Figure 2 and listed in Table 1.

During the January and July events, all viable wells in the groundwater monitoring system are sampled. Prior to 2021, during the voluntary April and October events, only the wells installed during the 2015, 2016, 2017, 2019, and 2020 groundwater investigations were sampled to develop concentration trends over time. In 2021, the voluntary events were reduced to include analytical sampling of only the wells installed in 2019 and 2020. The groundwater data collected during the January and April 2021 events are discussed below.

5.1 Potentiometric Conditions

Prior to sampling during each event, depth-to-groundwater measurements were collected at each well with an oil/water interface probe, with an accuracy of 0.01 foot, to determine the groundwater elevation in each well. Groundwater potentiometric elevations and contours for the January and April 2021 events are shown on Figures 3 and 4, respectively. The measurements indicate that the groundwater flow direction is generally to the southwest which is consistent with previous events. A summary of the depth-to-groundwater measurements and the corresponding groundwater elevations is included in Tables 2 and 3. Historical groundwater elevations are included in Appendix A.

During the April 2021 voluntary sampling event, depth-to-groundwater measurements were collected at a limited number of wells in New Mexico and south of State Highway 128 in Texas to develop the groundwater potentiometric contours shown on Figure 4. These limited wells included: MW-8, MW-9, MW-28, MW-29, MW-32, MW-33, MW-43, NM-MW-1, NM-MW-2, NM-MW-3, NM-MW-4, NM-MW-5, NM-MW-6, NM-MW-7, NM-MW-8, NM-MW-9, NM-MW-10, NM-MW-11, NM-MW-12, NM-MW-13, NM-MW-14, NM-MW-15, NM-MW-17, NM-MW-20, and NM-MW-21.

5.2 Groundwater Sampling

During the January and April 2021 sampling events, investigative groundwater samples were collected via no purge grab sampling techniques. The groundwater samples were collected directly from the screened interval of each well using a HydraSleeve. The HydraSleeve is deployed during the gauging event to allow the well to return to equilibrium prior to sampling. Groundwater samples were collected in laboratory supplied containers, preserved on ice, and transported to Xenco Laboratories located in Midland, Texas, following proper chain-of-custody procedures. All groundwater samples were submitted for analysis of chloride by United States Environmental Protection Agency (EPA) Method 300/300.1 and TDS by EPA Method SM2540C. The results received from Xenco Laboratories for the January and April 2021 sampling events are reported herein.

During the April 2021 voluntary sampling event, only the wells installed in 2019 and 2020 were sampled to develop concentration trends over time (i.e., MW-32, MW-33, MW-34, NM-MW-14, NM-MW-15, NM-MW-17, NM-MW-20, and NM-MW-21). Although NM-MW-16 was also installed in 2020, it was not sampled during the April 2021 sampling event because it was dry at the time of the event.

5.3 Analytical Results

Groundwater sample analytical results were compared to the Texas Commission of Environmental Quality (TCEQ) Secondary Drinking Water Standards and Secondary Constituent levels for chlorides (300 milligrams per liter [mg/L]) and TDS (1,000 mg/L). The groundwater sample analytical results from the January and April 2021 events are listed in

Table 4. The groundwater chloride and TDS concentrations and isopleths for the January and April 2021 sampling events are shown on Figures 5 through 8, and the analytical laboratory reports are included in Appendix B. The concentrations of chlorides and TDS are generally consistent with historical events. The chloride plume has been fully delineated in the downgradient direction in both Texas and New Mexico following the installation of the 2020 monitor wells. A table of historical analytical results is included in Appendix C.

5.4 Quality Assurance/Quality Control

During the January and April 2021 sampling events, four field duplicate sample sets were collected for chloride and TDS during each sampling event to confirm sample quality and reproducibility. No significant deviations were encountered in the sample results for duplicate constituents. All certified groundwater laboratory reports received during the January and April 2021 sampling events were reviewed by a GHD analytical chemist for laboratory and field method quality assurance/quality control (QA/QC). All laboratory reports were approved, and the associated data validation reports issued by GHD are included in Appendix D.

6. Conclusions and Path Forward

The results of the 2021 groundwater monitoring events will be used to continue development for the strategy and path forward for the Site. CEMREC will continue conducting quarterly monitoring of the monitor wells installed in 2019 and 2020 to establish concentration trends over time. All viable wells in the groundwater monitoring system will continue to be sampled semi-annually.

Should you have any questions regarding this submittal, please contact Nicholas G. Casten of GHD at (225) 296-6513 or Jason Michelson of CEMREC at (832) 854-5601.

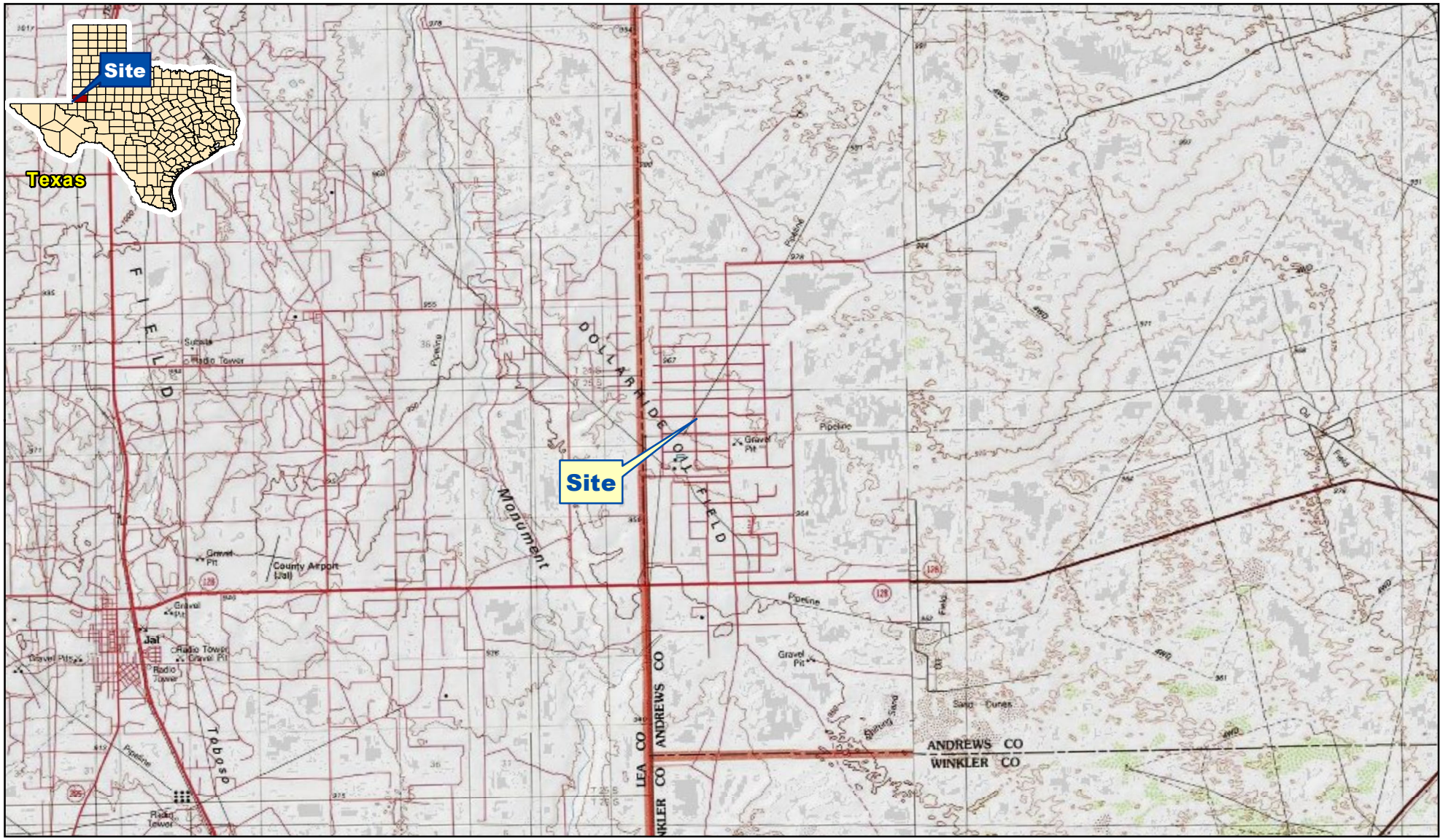
All of which is Respectfully Submitted

GHD

Nicholas G. Casten

Nicholas G. Casten

Brian L. Carter, PhD
Texas PG No. 10319



Source: USGS 7.5 Minute Topographic Maps.

0 1 2
Miles

Coordinate System:
NAD 1983 UTM Zone 13N

N

GHD

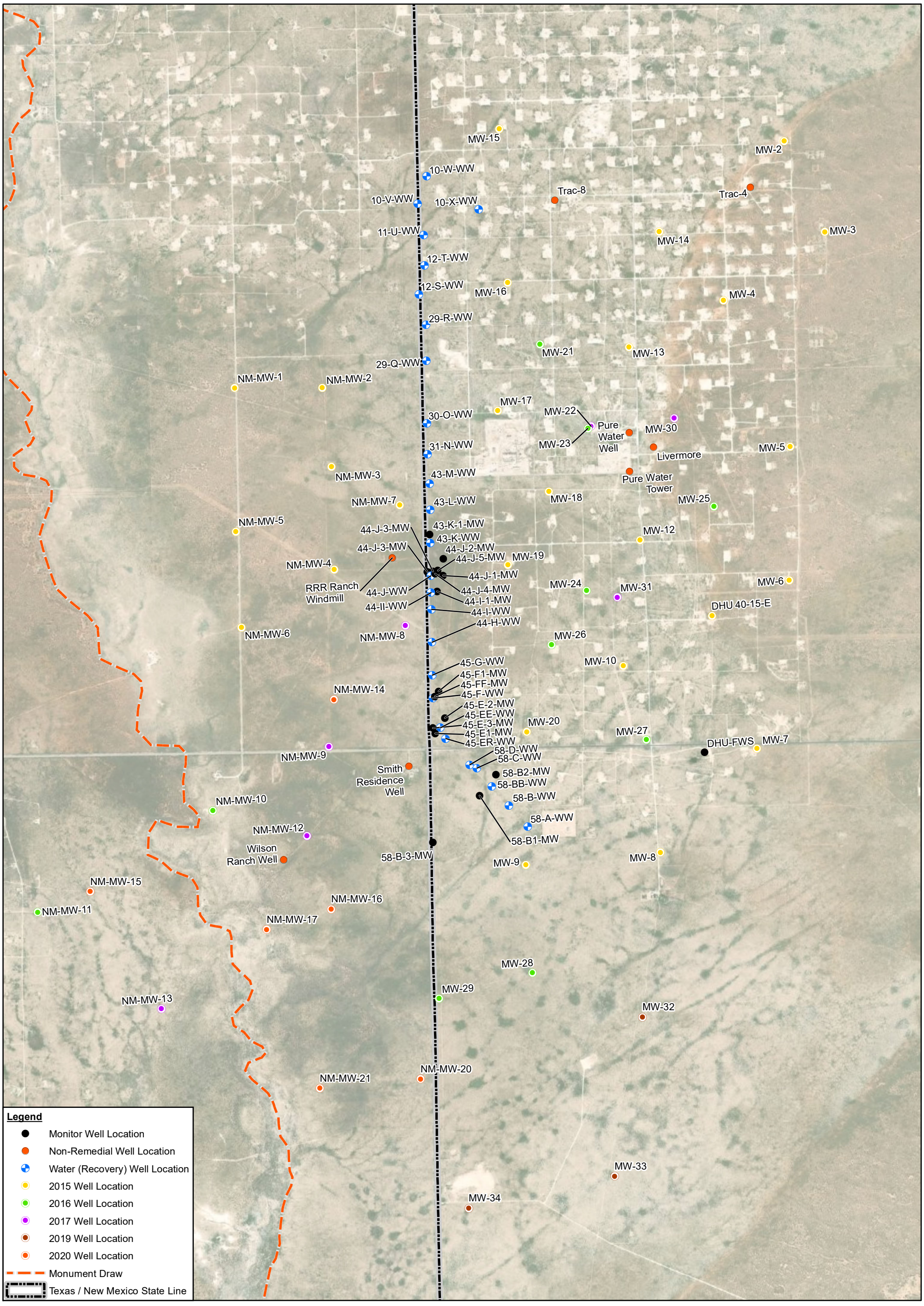
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
CHEVRON DOLLARHIDE UNIT

055270
Jun 30, 2020

SITE VICINITY MAP

FIGURE 1

GIS File: I:\GIS\GIS\Projects\55000s\55270\Layouts\RPT018\055270-00(RPT018)GIS-BR001.mxd



Source: ESRI World Imagery Basemap Service, Digital Globe: 10/11/2016

0 1,350 2,700
Feet

Coordinate System:
NAD 1983 UTM Zone 13N

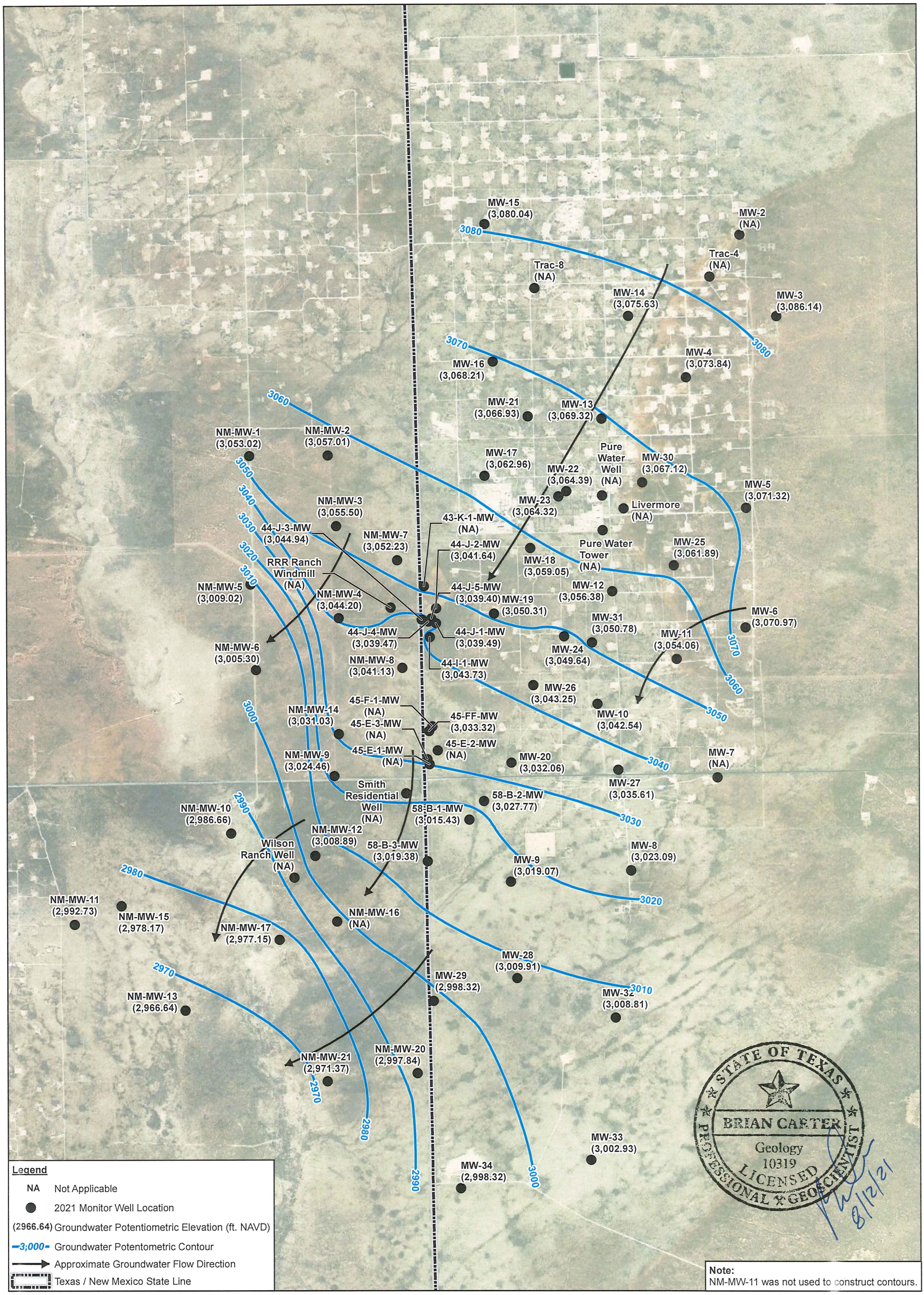
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

055270
Jul 2, 2020

SITE DETAILS MAP

FIGURE 2

GIS File: I:\GIS\GIS\Projects\55000s\55270\Layouts\RPT018\055270-00(RPT018)GIS-BR002.mxd



Source: ESRI World Imagery Basemap Service.

0 1,500 3,000
Feet

Coordinate System:
NAD 1983 UTM Zone 13N

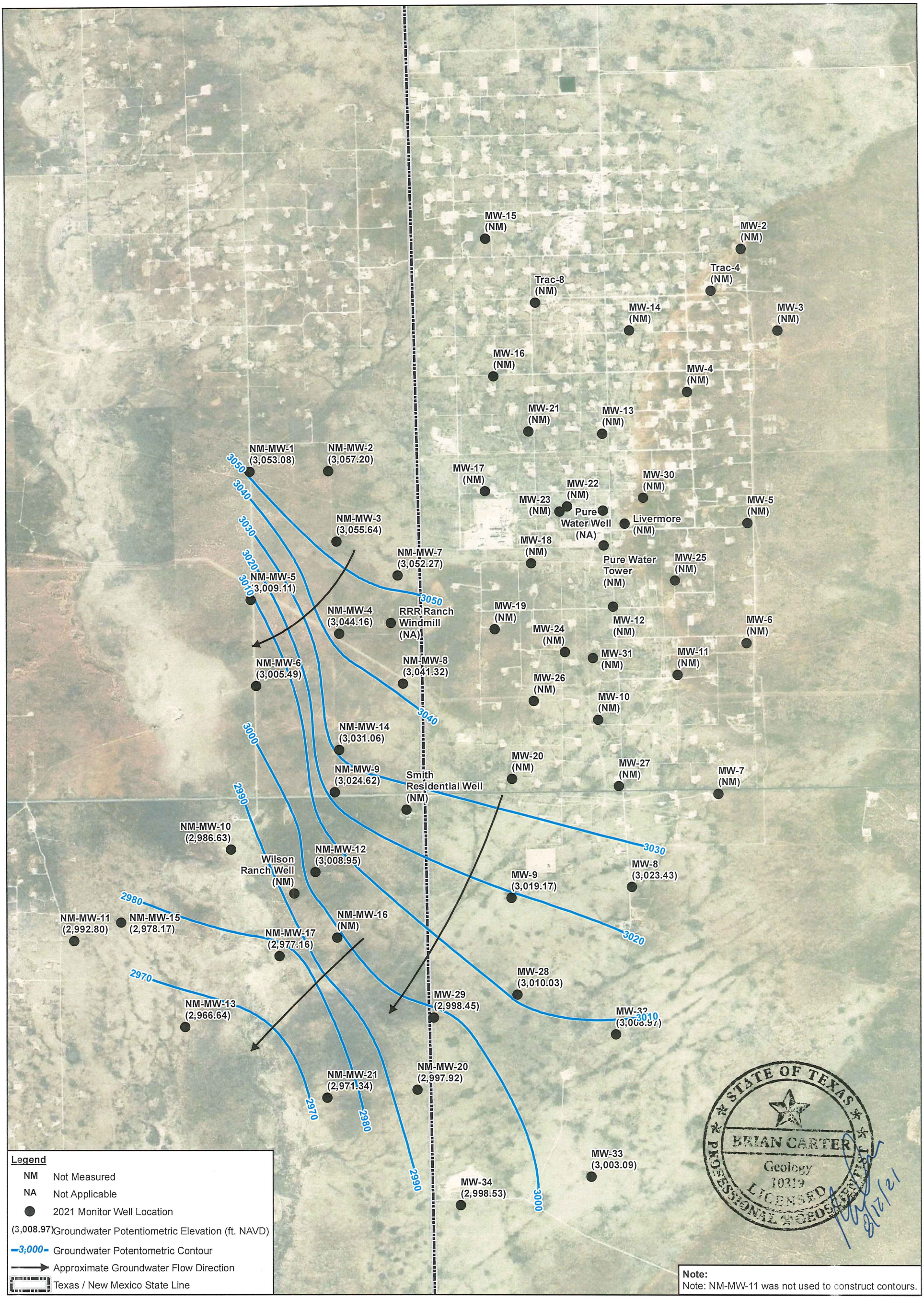
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

JANUARY 2021 GROUNDWATER POTENTIOMETRIC ELEVATIONS & CONTOURS

055270
Jul 27, 2021

FIGURE 3

GIS File: I:\GIS\GIS\Projects\55000s\55270\Layouts\RPT020\055270_202105_RPT020_GIS-BR001.mxd



Source: ESRI World Imagery Basemap Service.

0 1,500 3,000
Feet

Coordinate System:
NAD 1983 UTM Zone 13N

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

APRIL 2021 GROUNDWATER POTENTIOMETRIC ELEVATIONS & CONTOURS

055270
Jul 21, 2021

FIGURE 4

GIS File: N:\US\Baton Rouge\Legacy\BAT\Shared\GIS\GIS\Projects\55000s\55270\Layouts\RPT020\055270_202105_RPT020_GIS-BR002.mxd

MW-15 (902)
MW-2 (NS)
Trac-4 (NA)
Trac-8 (NA)
MW-14 (1,260)
MW-3 (605)
MW-16 (403)
MW-4 (327)
MW-21 (3,050)
MW-13 (1,270)
NM-MW-1 (273)
NM-MW-2 (659)
MW-17 (7,680)
MW-22 (11,000)
Pure Water Well (NA)
MW-30 (2,100)
MW-5 (252)
MW-23 (4,160)
Livermore (2,200)
NM-MW-3 (264)
MW-18 (21,000)
NM-MW-7 (2,170)
Pure Water Tower (NA)
MW-25 (23,900)
NM-MW-5 (146)
RRR Ranch Windmill (2,030)
43-K-1-MW (5,620)
44-J-2-MW (4,890)
MW-12 (13,300)
NM-MW-4 (44.4)
MW-19 (7,350)
MW-6 (380)
MW-24 (1,680)
44-J-3-MW (4,870)
44-J-5-MW (4,140)
MW-11 (7,290)
NM-MW-6 (142)
MW-31 (9,500)
44-J-4-MW (3,930)
44-J-1-MW (3,730)
MW-26 (1,400)
MW-10 (3,880)
NM-MW-8 (6,110)
44-I-1-MW (3,540)
NM-MW-14 (95.2)
45-FF-MW (3,770)
45-F-1-MW (991)
45-E-3-MW (4,260)
MW-20 (1,130)
MW-27 (2,210)
MW-7 (NS)
NM-MW-9 (242)
45-E-2-MW (1,670)
45-E-1-MW (2,490)
Smith Residential Well (1,040)
58-B-2-MW (3,560)
DHU-FWS (625)
NM-MW-10 (336)
58-B-1-MW (6,230)
NM-MW-12 (430)
58-B-3-MW (1,630)
MW-8 (994)
Wilson Ranch Well (526)
MW-9 (2,670)
NM-MW-15 (56.4)
NM-MW-16 (NS)
NM-MW-11 (152)
NM-MW-17 (182)
MW-28 (3,940)
MW-29 (550)
NM-MW-13 (185)
MW-32 (349)
NM-MW-20 (23.9)
NM-MW-21 (29.0)
MW-33 (190)
MW-34 (70.8)

1000
500
5000
10000
20000
250

Legend

NS	Not Sampled
NA	Not Applicable
●	Monitor Well Location
(336)	Chloride Concentration (mg/L)
—1,000—	Chloride Concentration Isopleth
	Texas / New Mexico State Line

Note:
Bold font indicates that a detected result was above the TCEQ Secondary Drinking Water Standard.

STATE OF TEXAS
BRIAN CARTER
Geology
10319
LICENSED
PROFESSIONAL GEOSCIENTIST
8/12/21

Source: ESRI World Imagery Basemap Service.

0 1,500 3,000
Feet
Coordinate System:
NAD 1983 UTM Zone 13N

N

GHD

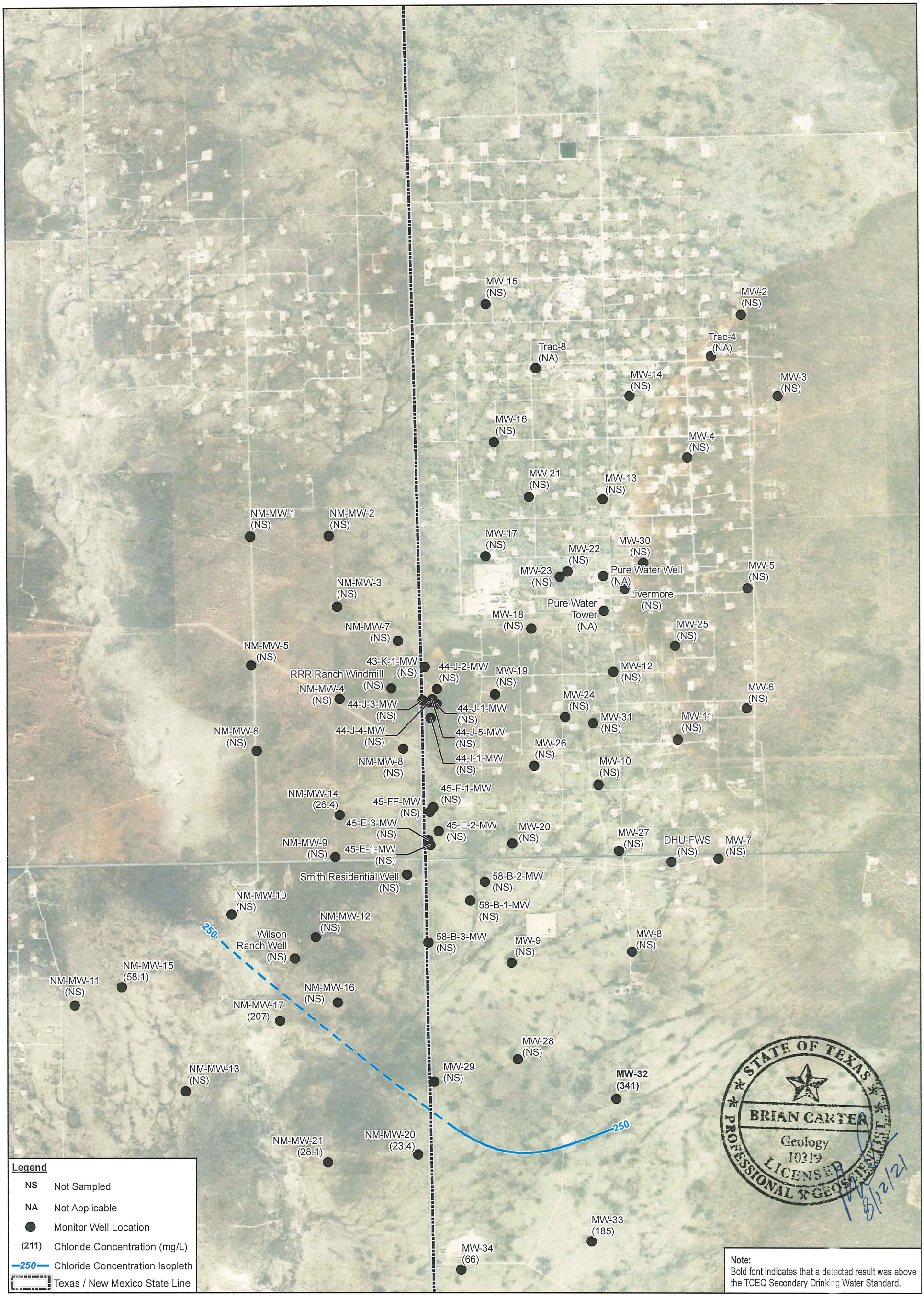
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

JANUARY 2021 GROUNDWATER CHLORIDE CONCENTRATIONS & ISOPLETHS

055270
Jul 21, 2021

FIGURE 5

GIS File: N:\US\Baton Rouge\Legacy\BAT\Shared\GIS\GIS\Projects\55000s\55270\Layouts\RPT020\055270_202105_RPT020_GIS-BR003.mxd



Source: ESRI World Imagery Basemap Service.

0 1,500 3,000
Feet

Coordinate System:
NAD 1983 UTM Zone 13N

N

GHD

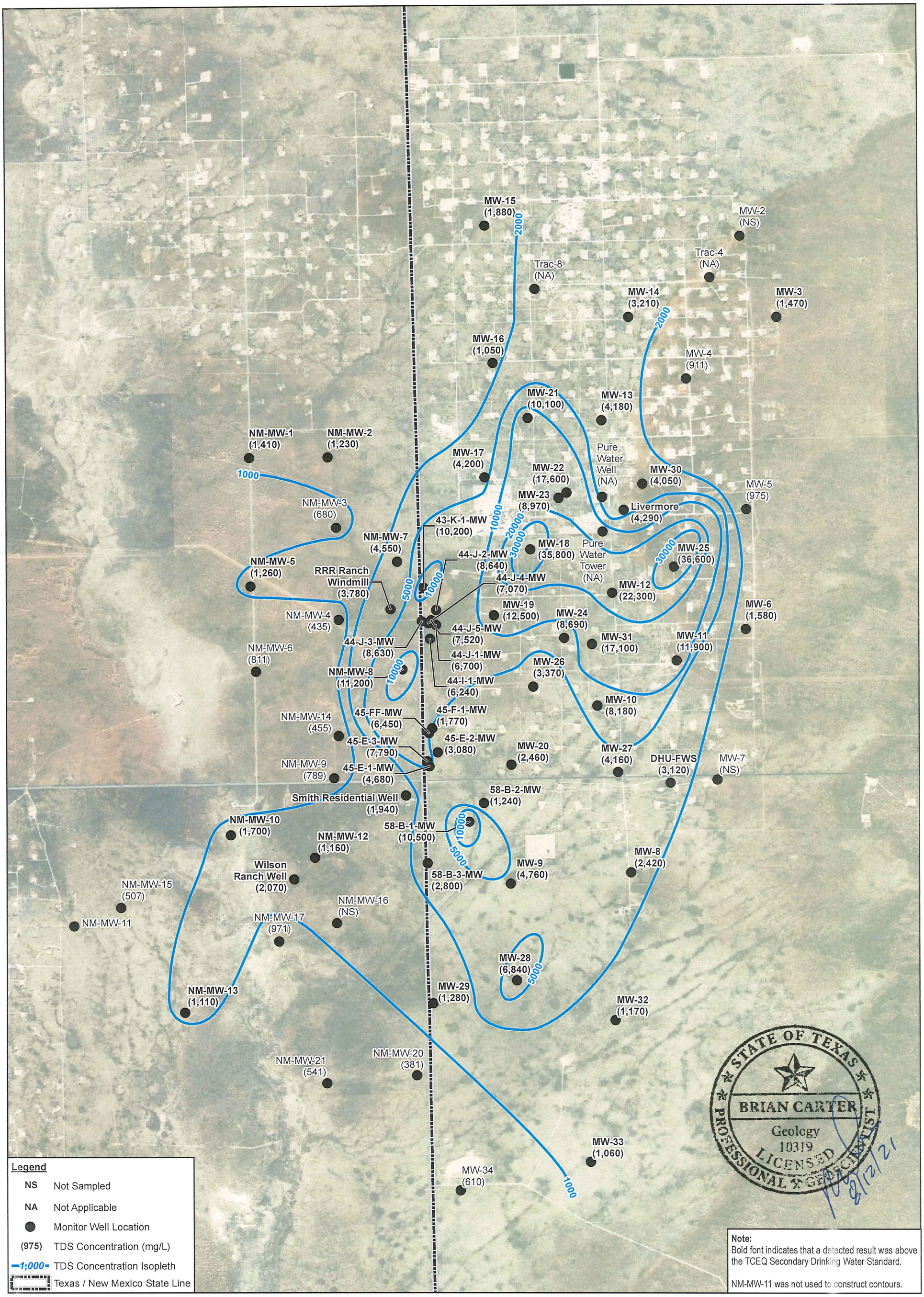
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

APRIL 2021 GROUNDWATER CHLORIDE CONCENTRATIONS & ISOPLETHS

055270
Jul 21, 2021

FIGURE 6

GIS File: N:\US\Baton Rouge\Legacy\BAT\Shared\GIS\GIS\Projects\55000s\55270\Layouts\RPT020\055270_202105_RPT020_GIS-BR004.mxd



Source: ESRI World Imagery Basemap Service.

0 1,500 3,000
Feet

Coordinate System:
NAD 1983 UTM Zone 13N

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

JANUARY 2021 GROUNDWATER TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATIONS & ISOPLETHS

055270
Jul 27, 2021

FIGURE 7

GIS File: I:\GIS\GIS\Projects\55000s\55270\Layouts\RPT020\055270_202105_RPT020_GIS-BR005.mxd

MW-15 (NS)
MW-2 (NS)
Trac-8 (NA)
Trac-4 (NA)
MW-14 (NS)
MW-3 (NS)
MW-16 (NS)
MW-4 (NS)
MW-21 (NS)
MW-13 (NS)
NM-MW-1 (NS)
NM-MW-2 (NS)
MW-17 (NS)
Pure Water Well (NA)
MW-30 (NS)
MW-22 (NS)
MW-23 (NS)
MW-5 (NS)
NM-MW-3 (NS)
Livermore (NS)
MW-18 (NS)
NM-MW-7 (NS)
43-K-1-MW (NS)
Pure Water Tower (NA)
MW-25 (NS)
NM-MW-5 (NS)
RRR Ranch Windmill (NS)
44-J-2-MW (NS)
44-J-5-MW (NS)
NM-MW-4 (NS)
MW-19 (NS)
MW-12 (NS)
MW-24 (NS)
MW-6 (NS)
44-J-3-MW (NS)
44-J-1-MW (NS)
MW-31 (NS)
MW-11 (NS)
NM-MW-6 (NS)
44-J-4-MW (NS)
MW-26 (NS)
NM-MW-8 (NS)
44-I-1-MW (NS)
MW-10 (NS)
NM-MW-14 (466)
45-FF-MW (NS)
45-F-1-MW (NS)
45-E-3-MW (NS)
45-E-2-MW (NS)
MW-20 (NS)
MW-27 (NS)
DHU-FWS (NS)
MW-7 (NS)
NM-MW-9 (NS)
45-E-1-MW (NS)
Smith Residential Well (NS)
58-B-2-MW (NS)
NM-MW-10 (NS)
58-B-1-MW (NS)
NM-MW-12 (NS)
Wilson Ranch Well (NS)
58-B-3-MW (NS)
MW-9 (NS)
MW-8 (NS)
NM-MW-15 (519)
NM-MW-11 (NS)
NM-MW-16 (NS)
NM-MW-17 (1,010)
1000
MW-28 (NS)
MW-29 (NS)
NM-MW-13 (NS)
MW-32 (1,120)
NM-MW-20 (377)
NM-MW-21 (529)
MW-33 (1,040)
MW-34 (619)
1000

STATE OF TEXAS
BRIAN CARTER
Geology
10319
LICENSED
PROFESSIONAL GEOSCIENTIST
8/12/2

Legend

NS	Not Sampled
NA	Not Applicable
●	Monitor Well Location
(1,010)	TDS Concentration (mg/L)
1,000	TDS Concentration Isopleth
	Texas / New Mexico State Line

Note:
Bold font indicates that a detected result was above the TCEQ Secondary Drinking Water Standard.

Source: ESRI World Imagery Basemap Service.

0 1,500 3,000
Feet

Coordinate System:
NAD 1983 UTM Zone 13N

N

GHD

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

APRIL 2021 GROUNDWATER TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATIONS & ISOPLETHS

055270
Jul 21, 2021

FIGURE 8

GIS File: N:\US\Baton Rouge\Legacy\BAT\Shared\GIS\GIS\Projects\55000s\55270\Layouts\RPT020\055270_202105_RPT020_GIS-BR006.mxd

Table 1

Groundwater Well Designations
Chevron Dollarhide Unit
Dollarhide, Texas

Well Group Designation	Well Identification
Recovery Wells	10-V-WW
	10-W-WW
	10-X-WW
	11-U-WW
	12-S-WW
	12-T-WW
	29-Q-WW
	29-R-WW
	30-O-WW
	31-N-WW
	43-K-WW
	43-L-WW
	43-M-WW
	44-H-WW
	44-I-WW
	44-II-WW
	44-J-WW
	45-EE-WW
	45-ER-WW
	45-F-WW
	45-G-WW
	58-A-WW
	58-B-WW
	58-BB-WW
	58-C-WW
	58-D-WW
Monitor Wells	43-K-1-MW
	44-I-1-MW
	44-J-1-MW
	44-J-2-MW
	44-J-3-MW
	44-J-4-MW
	44-J-5-MW
	45-E-1-MW
	45-E-2-MW
	45-E-3-MW
	45-F-1-MW
	45-FF-MW
	58-B-1-MW
	58-B-2-MW
	58-B-3-MW
	MW-2(1)
	MW-3(1)
	MW-4(1)
	MW-5(1)
	MW-6(1)
	MW-7(1)
	MW-8(1)
	MW-9(1)
	MW-10(1)
	MW-11(1)
	MW-12(1)
	MW-13(1)
	MW-14(1)

Table 1

Groundwater Well Designations
Chevron Dollarhide Unit
Dollarhide, Texas

Well Group Designation	Well Identification
Monitor Wells	MW-15[(1)]
	MW-16[(1)]
	MW-17[(1)]
	MW-18[(1)]
	MW-19[(1)]
	MW-20[(1)]
	MW-21[(1)]
	MW-22[(1)]
	MW-23[(1)]
	MW-24[(1)]
	MW-25[(1)]
	MW-26[(1)]
	MW-27[(1)]
	MW-28[(1)]
	MW-29[(1)]
	MW-30[(1)]
	MW-31[(1)]
	MW-32[(1)]
	MW-33[(1)]
	MW-34[(1)]
	NM-MW-1[(1)]
	NM-MW-2[(1)]
	NM-MW-3[(1)]
	NM-MW-4[(1)]
	NM-MW-5[(1)]
	NM-MW-6[(1)]
	NM-MW-7[(1)]
	NM-MW-8[(1)]
	NM-MW-9[(1)]
	NM-MW-10[(1)]
	NM-MW-11[(1)]
	NM-MW-12[(1)]
	NM-MW-13[(1)]
	NM-MW-14[(1)]
	NM-MW-15[(1)]
	NM-MW-16[(1)]
	NM-MW-17[(1)]
	NM-MW-20[(1)]
	NM-MW-21[(1)]
Non-Remedial Wells	Livermore
	Pure Water Tower
	Pure Water Well
	RRR Ranch Windmill
	TRAC-4
	TRAC-8
	Smith Residence
	Wilson Ranch Well

Note:

[(1)] Indicates monitor wells installed in 2015, 2016, 2017, 2019, and 2020 that are voluntarily sampled quarterly.

Table 2

January 2021 Groundwater Elevation Measurements
Chevron Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
Monitor Wells			
43-K-1-MW	NM	93.85	NA
44-I-1-MW	3,138.93	95.20	3,043.73
44-J-1-MW	3,134.50	95.01	3,039.49
44-J-2-MW	3,135.30	93.66	3,041.64
44-J-3-MW	3,140.19	95.25	3,044.94
44-J-4-MW	3,133.69	94.22	3,039.47
44-J-5-MW	3,134.75	95.35	3,039.40
45-E-1-MW	NM	87.13	NA
45-E-2-MW	NM	84.57	NA
45-E-3-MW	NM	87.66	NA
45-F-1-MW	NM	88.95	NA
45-FF-MW	3,122.70	89.38	3,033.32
58-B-1-MW	3,100.59	85.16	3,015.43
58-B-2-MW	3,111.91	84.14	3,027.77
58-B-3-MW	3,108.46	89.08	3,019.38
MW-2	3,204.56	DRY	NA
MW-3	3,199.51	113.37	3,086.14
MW-4	3,189.69	115.85	3,073.84
MW-5	3,174.43	103.11	3,071.32
MW-6	3,165.25	94.28	3,070.97
MW-7	3,132.14	DRY	NA
MW-8	3,107.34	84.25	3,023.09
MW-9	3,103.82	84.75	3,019.07
MW-10	3,139.71	97.17	3,042.54
MW-11	3,156.65	102.59	3,054.06
MW-12	3,151.33	94.95	3,056.38
MW-13	3,168.41	99.09	3,069.32
MW-14	3,182.69	107.06	3,075.63
MW-15	3,184.55	104.51	3,080.04
MW-16	3,167.93	99.72	3,068.21
MW-17	3,147.44	84.48	3,062.96
MW-18	3,155.01	95.96	3,059.05
MW-19	3,149.90	99.59	3,050.31
MW-20	3,120.09	88.03	3,032.06
MW-21	3,159.65	92.72	3,066.93
MW-22	3,152.50	88.11	3,064.39
MW-23	3,151.66	87.34	3,064.32
MW-24	3,144.88	95.24	3,049.64
MW-25	3,165.45	103.56	3,061.89
MW-26	3,136.99	93.74	3,043.25
MW-27	3,126.99	91.38	3,035.61

Table 2

January 2021 Groundwater Elevation Measurements
Chevron Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
MW-28	3,093.86	83.95	3,009.91
MW-29	3,098.60	100.28	2,998.32
MW-30	3,170.95	103.83	3,067.12
MW-31	3,145.41	94.63	3,050.78
MW-32	3,090.28	81.47	3,008.81
MW-33	3,080.02	77.09	3,002.93
MW-34	3,069.95	71.63	2,998.32
NM-MW-1	3,124.90	71.88	3,053.02
NM-MW-2	3,152.86	95.85	3,057.01
NM-MW-3	3,146.86	91.36	3,055.50
NM-MW-4	3,154.21	110.01	3,044.20
NM-MW-5	3,109.14	100.12	3,009.02
NM-MW-6	3,093.23	87.93	3,005.30
NM-MW-7	3,147.67	95.44	3,052.23
NM-MW-8	3,138.62	97.49	3,041.13
NM-MW-9	3,118.18	93.72	3,024.46
NM-MW-10	3,066.32	79.66	2,986.66
NM-MW-11	3,075.44	82.71	2,992.73
NM-MW-12	3,105.47	96.58	3,008.89
NM-MW-13	3,051.17	84.53	2,966.64
NM-MW-14	3,126.82	95.79	3,031.03
NM-MW-15	3,064.93	86.76	2,978.17
NM-MW-16	3,085.99	DRY	NA
NM-MW-17	3,035.70	58.55	2,977.15
NM-MW-20	3,091.29	93.45	2,997.84
NM-MW-21	3,047.98	76.61	2,971.37
Non-Remedial Wells			
RRR Ranch Windmill	NM	93.46	NA
Livermore	NM	95.63	NA
Pure Water Tower	3,154.43	NM	NA
TRAC-4	NM	NM	NA
TRAC-8	NM	NM	NA
Pure Water Well	3,151.80	NM	NA
Smith Residential Well	NM	NM	NA
Wilson Ranch	NM	NM	NA

Notes:
ft = feet
NM = Not Measured
NA = Not Applicable
TOC = top of casing
NAVD = North American Vertical Datum

Table 3

April 2021 Groundwater Elevation Measurements
Chevron Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
Monitor Wells			
MW-2	3,204.56	NM	NM
MW-3	3,199.51	NM	NM
MW-4	3,189.69	NM	NM
MW-5	3,174.43	NM	NM
MW-6	3,165.25	NM	NM
MW-7	3,132.14	NM	NM
MW-8	3,107.34	83.91	3,023.43
MW-9	3,103.82	84.65	3,019.17
MW-10	3,139.71	NM	NM
MW-11	3,156.65	NM	NM
MW-12	3,151.33	NM	NM
MW-13	3,168.41	NM	NM
MW-14	3,182.69	NM	NM
MW-15	3,184.55	NM	NM
MW-16	3,167.93	NM	NM
MW-17	3,147.44	NM	NM
MW-18	3,155.01	NM	NM
MW-19	3,149.90	NM	NM
MW-20	3,120.09	NM	NM
MW-21	3,159.65	NM	NM
MW-22	3,152.50	NM	NM
MW-23	3,151.66	NM	NM
MW-24	3,144.88	NM	NM
MW-25	3,165.45	NM	NM
MW-26	3,136.99	NM	NM
MW-27	3,126.99	NM	NM
MW-28	3,093.86	83.83	3,010.03
MW-29	3,098.60	100.15	2,998.45
MW-30	3,170.95	NM	NM
MW-31	3,145.41	NM	NM
MW-32	3,090.28	81.31	3,008.97
MW-33	3,080.02	76.93	3,003.09
MW-34	3,069.95	71.42	2,998.53

Table 3

April 2021 Groundwater Elevation Measurements
Chevron Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
NM-MW-1	3,124.90	71.82	3,053.08
NM-MW-2	3,152.86	95.66	3,057.20
NM-MW-3	3,146.86	91.22	3,055.64
NM-MW-4	3,154.21	110.05	3,044.16
NM-MW-5	3,109.14	100.03	3,009.11
NM-MW-6	3,093.23	87.74	3,005.49
NM-MW-7	3,147.67	95.40	3,052.27
NM-MW-8	3,138.62	97.30	3,041.32
NM-MW-9	3,118.18	93.56	3,024.62
NM-MW-10	3,066.32	79.69	2,986.63
NM-MW-11	3,075.44	82.64	2,992.80
NM-MW-12	3,105.47	96.52	3,008.95
NM-MW-13	3,051.17	84.53	2,966.64
NM-MW-14	3,126.82	95.76	3,031.06
NM-MW-15	3,064.93	86.76	2,978.17
NM-MW-16	3,085.99	DRY	NM
NM-MW-17	3,035.70	58.54	2,977.16
NM-MW-20	3,091.29	93.37	2,997.92
NM-MW-21	3,047.98	76.64	2,971.34
Non-Remedial Wells			
RRR Ranch Windmill	NM	93.42	NM
Livermore	NM	NM	NM
Pure Water Tower	3,154.43	NM	NM
TRAC-4	NM	NM	NM
TRAC-8	NM	NM	NM
Pure Water Well	3,151.80	NM	NM
Smith Residential Well	NM	NM	NM
Wilson Ranch	NM	NM	NM

Notes:
ft = feet
NM = Not Measured
NA = Not Applicable
TOC = top of casing
NAVD = North American Vertical Datum

First Half 2021 Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Andrews County, Texas

Sample ID	January		April	
	Chloride (mg/L)	Total Dissolved Solids (mg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)	**300**	**1,000**	**300**	**1,000**
Monitor Wells				
43-K-1-MW	**5,620**	**10,200**	NS	NS
44-I-1-MW	**3,540**	**6,240**	NS	NS
44-J-1-MW	**3,730**	**6,700**	NS	NS
44-J-2-MW	**4,890**	**8,640**	NS	NS
44-J-3-MW	**4,870**	**8,630**	NS	NS
44-J-4-MW	**3,930**	**7,070**	NS	NS
44-J-5-MW	**4,140**	**7,520**	NS	NS
45-E-1-MW	**2,490**	**4,680**	NS	NS
45-E-2-MW	**1,670**	**3,080**	NS	NS
45-E-3-MW	**4,260**	**7,790**	NS	NS
45-F-1-MW	**991**	**1,770**	NS	NS
45-FF-MW	**3,770**	**6,450**	NS	NS
58-B-1-MW	**6,230**	**10,500**	NS	NS
58-B-2-MW	**3,560**	**1,240**	NS	NS
58-B-3-MW	**1,630**	**2,800**	NS	NS
MW-2	NS	NS	NS	NS
MW-3	**605**	**1,470**	NS	NS
MW-4	**327**	911	NS	NS
MW-5	252	975	NS	NS
MW-6	**380**	**1,580**	NS	NS
MW-7	NS	NS	NS	NS
MW-8	**994**	**2,420**	NS	NS
MW-9	**2,670**	**4,760**	NS	NS
MW-10	**3,880**	**8,180**	NS	NS
MW-11	**7,290**	**11,900**	NS	NS
MW-12	**13,300**	**22,300**	NS	NS
MW-13	**1,270**	**4,180**	NS	NS
MW-14	**1,260**	**3,210**	NS	NS
MW-15	**902**	**1,880**	NS	NS
MW-16	**403**	**1,050**	NS	NS
MW-17	**7,680**	**4,200**	NS	NS
MW-18	**21,000**	**35,800**	NS	NS
MW-19	**7,350**	**12,500**	NS	NS
MW-20	**1,130**	**2,460**	NS	NS
MW-21	**3,050**	**10,100**	NS	NS
MW-22	**11,000**	**17,600**	NS	NS
MW-23	**4,160**	**8,970**	NS	NS
MW-24	**1,680**	**8,690**	NS	NS
MW-25	**23,900**	**36,600**	NS	NS
MW-26	**1,400**	**3,370**	NS	NS
MW-27	**2,210**	**4,160**	NS	NS

First Half 2021 Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Andrews County, Texas

Sample ID	January		April	
	Chloride (mg/L)	Total Dissolved Solids (mg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)	**300**	**1,000**	**300**	**1,000**
MW-28	**3,940**	**6,840**	NS	NS
MW-29	**550**	**1,280**	NS	NS
MW-30	**2,100**	**4,050**	NS	NS
MW-31	**9,500**	**17,100**	NS	NS
MW-32	**349**	**1,170**	**341**	**1,120**
MW-33	190	**1,060**	185	**1,040**
MW-34	70.8	610	66.0	619
NM-MW-1	273	**1,410**	NS	NS
NM-MW-2	**659**	**1,230**	NS	NS
NM-MW-3	264	680	NS	NS
NM-MW-4	44.4	435	NS	NS
NM-MW-5	146	**1,260**	NS	NS
NM-MW-6	142	811	NS	NS
NM-MW-7	**2,170**	**4,550**	NS	NS
NM-MW-8	**6,110**	**11,200**	NS	NS
NM-MW-9	242	789	NS	NS
NM-MW-10	**336**	**1,700**	NS	NS
NM-MW-11	152	**2,030**	NS	NS
NM-MW-12	**430**	**1,160**	NS	NS
NM-MW-13	185	**1,110**	NS	NS
NM-MW-14	95.2	455	26.4	466
NM-MW-15	56.4	507	58.1	519
NM-MW-16	NS	NS	NS	NS
NM-MW-17	182	971	207	**1,010**
NM-MW-20	23.9	381	23.4	377
NM-MW-21	29.0	541	28.1	529
Non-Remedial Wells				
Livermore	**2,200**	**4,290**	NS	NS
Pure Water Tower	NA	NA	NA	NA
Pure Water Well	NA	NA	NA	NA
RRR Ranch Windmill	**2,030**	**3,780**	NS	NS
Smith Residential Well	**1,040**	**1,940**	NS	NS
TRAC-4	NA	NA	NA	NA
TRAC-8	NA	NA	NA	NA
Wilson Ranch	**526**	**2,070**	NS	NS
DHU-FWS	**625**	**3,120**	NS	NS

Notes:
1. Constituent concentrations are reported in milligrams per liter (mg/L).
2. Bold font indicates that a detected result was above the TCEQ Secondary Drinking Water

NA = Not Applicable
NS = Not Sampled

Appendices

Appendix A

Historical Groundwater Elevations

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
Monitor Wells						
43-K-1-MW						
NM	02/28/07	NM	94.85	NA	NA	NA
	01/22/08	112.95	95.26	NA	NA	NA
	07/07/08	NM	95.33	NA	NA	NA
	08/26/09	114.28	95.69	NA	NA	NA
	01/28/09	112.95	95.32	NA	NA	NA
	08/16/10	NM	95.40	NA	NA	NA
	02/11/11	112.00	95.45	NA	NA	NA
	08/02/11	112.91	94.79	NA	NA	NA
	01/30/13	112.90	95.23	NA	NA	NA
	01/13/14	112.96	92.33	NA	NA	NA
	07/14/14	NM	95.29	NA	NA	NA
	01/12/15	NM	95.21	NA	NA	NA
	07/14/15	NM	95.00	NA	NA	NA
	01/25/16	116.47	94.90	NA	NA	NA
	07/20/16	NM	94.87	NA	NA	NA
	01/11/17	NM	94.82	NA	NA	NA
	07/13/17	NM	95.00	NA	NA	NA
	01/12/18	NM	94.61	NA	NA	NA
	07/02/18	NM	94.47	NA	NA	NA
	01/07/19	NM	94.20	NA	NA	NA
	07/11/19	112.89	94.16	NA	NA	NA
	01/15/20	NM	93.99	NA	NA	NA
	07/07/20	112.89	93.85	NA	NA	NA
	01/06/21	112.89	93.85	NA	NA	NA
44-I-1-MW						
3,133.50	06/13/06	108.25	93.55	NA	NA	3,039.95
	08/15/06	110.00	96.85	NA	NA	3,036.65
	09/13/06	106.38	96.91	NA	NA	3,036.59
	09/20/06	110.00	96.72	NA	NA	3,036.78
	10/04/06	110.00	96.94	NA	NA	3,036.56
	12/08/06	111.05	97.09	NA	NA	3,036.41
	02/13/07	108.25	96.85	NA	NA	3,036.65
	02/28/07	NM	96.85	NA	NA	3,036.65
	07/30/07	108.25	96.88	NA	NA	3,036.62
	01/22/08	108.25	97.05	NA	NA	3,036.45
	07/09/08	108.25	97.13	NA	NA	3,036.37
	01/28/09	108.25	97.46	NA	NA	3,036.04
	08/27/09	106.20	97.57	NA	NA	3,035.93
	02/19/10	NM	97.31	NA	NA	3,036.19
	08/16/10	NM	97.30	NA	NA	3,036.20
	02/11/11	NM	96.68	NA	NA	3,036.82
	08/02/11	106.70	96.17	NA	NA	3,037.33
	08/15/12	106.65	96.21	NA	NA	3,037.29
	01/30/13	106.26	95.97	NA	NA	3,037.53
	07/30/13	106.65	96.18	NA	NA	3,037.32
	01/13/14	106.65	96.21	NA	NA	3,037.29
	07/14/14	111.17	95.85	NA	NA	3,037.65
	01/12/15	NM	96.27	NA	NA	3,037.23
	07/14/15	NM	95.91	NA	NA	3,037.59
3,138.93	01/25/16	106.94	95.96	NA	NA	3,042.97
	07/20/16	NM	96.10	NA	NA	3,042.83
	01/12/17	NM	95.84	NA	NA	3,043.09
	07/13/17	NM	96.03	NA	NA	3,042.90
	01/12/18	NM	95.64	NA	NA	3,043.29
	07/02/18	NM	95.94	NA	NA	3,042.99
	01/09/19	NM	95.82	NA	NA	3,043.11
	07/11/19	106.21	95.53	NA	NA	3,043.40
	01/14/20	NM	95.39	NA	NA	3,043.54
	07/09/20	106.12	95.10	NA	NA	3,043.83
	01/06/21	106.07	95.20	NA	NA	3,043.73

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
44-J-1-MW						
3,134.50	06/13/06	111.04	96.31	NA	NA	3,038.19
	07/13/06	111.04	96.38	NA	NA	3,038.12
	08/15/06	111.00	96.53	NA	NA	3,037.97
	09/13/06	110.00	96.54	NA	NA	3,037.96
	09/20/06	111.00	96.40	NA	NA	3,038.10
	10/04/06	111.00	96.64	NA	NA	3,037.86
	12/08/06	111.97	97.41	NA	NA	3,037.09
	02/13/07	111.04	96.39	NA	NA	3,038.11
	02/28/07	NM	96.39	NA	NA	3,038.11
	07/30/07	111.04	96.51	NA	NA	3,037.99
	01/22/08	111.04	96.86	NA	NA	3,037.64
	07/09/08	111.04	96.90	NA	NA	3,037.60
	01/28/09	111.04	97.21	NA	NA	3,037.29
	08/28/09	110.40	97.27	NA	NA	3,037.23
	08/16/10	NM	96.82	NA	NA	3,037.68
	02/11/11	NM	96.42	NA	NA	3,038.08
	08/02/11	110.72	95.90	NA	NA	3,038.60
	08/15/12	110.04	96.03	NA	NA	3,038.47
	01/30/13	110.69	95.79	NA	NA	3,038.71
	07/30/13	110.80	95.92	NA	NA	3,038.58
	01/13/14	110.81	95.96	NA	NA	3,038.54
	07/14/14	110.76	95.91	NA	NA	3,038.59
	01/12/15	NM	96.01	NA	NA	3,038.49
	01/25/16	NM	95.72	NA	NA	3,038.78
	07/20/16	NM	95.85	NA	NA	3,038.65
	01/12/17	NM	95.60	NA	NA	3,038.90
	07/13/17	NM	95.80	NA	NA	3,038.70
	01/12/18	NM	95.41	NA	NA	3,039.09
	07/02/18	NM	95.70	NA	NA	3,038.80
	01/09/19	NM	95.57	NA	NA	3,038.93
	07/11/19	110.59	95.29	NA	NA	3,039.21
	01/14/20	NM	95.15	NA	NA	3,039.35
	07/09/20	110.52	94.87	NA	NA	3,039.63
	01/06/21	110.58	95.01	NA	NA	3,039.49
44-J-2-MW						
3,135.30	06/13/06	109.87	91.83	NA	NA	3,043.47
	07/13/06	109.87	94.82	NA	NA	3,040.48
	08/15/06	110.00	94.97	NA	NA	3,040.33
	09/13/06	110.00	95.01	NA	NA	3,040.29
	09/20/06	110.00	94.97	NA	NA	3,040.33
	10/04/06	110.00	96.56	NA	NA	3,038.74
	12/08/06	114.32	95.14	NA	NA	3,040.16
	02/13/07	109.87	94.68	NA	NA	3,040.62
	02/28/07	NM	94.68	NA	NA	3,040.62
	07/30/07	109.87	94.82	NA	NA	3,040.48
	01/22/08	109.87	95.04	NA	NA	3,040.26
	07/09/08	109.87	95.10	NA	NA	3,040.20
	01/28/09	109.87	95.29	NA	NA	3,040.01
	08/28/09	109.00	95.37	NA	NA	3,039.93
	02/19/10	NM	94.56	NA	NA	3,040.74
	08/16/10	NM	95.04	NA	NA	3,040.26
	02/11/11	NM	94.99	NA	NA	3,040.31
	08/02/11	108.75	94.48	NA	NA	3,040.82
	08/15/12	108.80	94.99	NA	NA	3,040.31
	01/30/13	108.90	94.57	NA	NA	3,040.73
	07/30/13	109.00	94.61	NA	NA	3,040.69
	01/13/14	109.03	94.56	NA	NA	3,040.74
	07/14/14	109.02	94.65	NA	NA	3,040.65
	01/12/15	NM	94.68	NA	NA	3,040.62
	07/14/15	NM	94.43	NA	NA	3,040.87
	01/25/16	109.01	94.39	NA	NA	3,040.91
	07/20/16	NM	94.45	NA	NA	3,040.85
	01/12/17	NM	94.30	NA	NA	3,041.00
	07/13/17	NM	94.48	NA	NA	3,040.82
	01/12/18	NM	94.15	NA	NA	3,041.15
	07/02/18	NM	94.31	NA	NA	3,040.99
	01/09/19	NM	94.14	NA	NA	3,041.16
	07/11/19	108.70	93.94	NA	NA	3,041.36
	01/14/20	NM	93.85	NA	NA	3,041.45
	07/09/20	108.67	93.61	NA	NA	3,041.69
	01/06/21	108.69	93.66	NA	NA	3,041.64

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
44-J-3-MW						
3,135.25	07/13/06	113.00	96.77	NA	NA	3,038.48
	08/07/06	113.00	96.94	NA	NA	3,038.31
	08/15/06	113.00	96.98	NA	NA	3,038.27
	09/13/06	113.00	97.01	NA	NA	3,038.24
	09/20/06	113.00	95.96	NA	NA	3,039.29
	10/04/06	113.00	97.10	NA	NA	3,038.15
	12/08/06	120.40	97.04	NA	NA	3,038.21
	01/22/08	114.55	97.63	NA	NA	3,037.62
	08/28/09	114.60	97.97	NA	NA	3,037.28
	02/19/10	NM	97.21	NA	NA	3,038.04
	08/16/10	NM	97.20	NA	NA	3,038.05
	02/11/11	110.00	96.74	NA	NA	3,038.51
	08/02/11	114.71	96.27	NA	NA	3,038.98
	01/30/13	114.83	96.17	NA	NA	3,039.08
	07/30/13	114.55	96.22	NA	NA	3,039.03
	01/13/14	114.55	96.25	NA	NA	3,039.00
	07/14/14	114.51	96.23	NA	NA	3,039.02
	01/12/15	NM	96.30	NA	NA	3,038.95
	07/14/15	NM	96.01	NA	NA	3,039.24
3,140.19	01/25/16	114.59	96.02	NA	NA	3,044.17
	07/20/16	NM	96.03	NA	NA	3,044.16
	01/13/17	NM	95.94	NA	NA	3,044.25
	07/13/17	NM	96.05	NA	NA	3,044.14
	01/12/18	NM	95.72	NA	NA	3,044.47
	07/02/18	NM	95.87	NA	NA	3,044.32
	01/09/19	NM	95.66	NA	NA	3,044.53
	07/11/19	114.35	95.49	NA	NA	3,044.70
	01/14/20	NM	95.39	NA	NA	3,044.80
	07/09/20	114.42	95.15	NA	NA	3,045.04
	01/06/21	114.45	95.25	NA	NA	3,044.94
44-J-4-MW						
3,133.69	07/13/06	111.00	95.79	NA	NA	3,037.90
	08/07/06	111.00	95.97	NA	NA	3,037.72
	08/15/06	111.00	96.02	NA	NA	3,037.67
	09/13/06	111.00	96.04	NA	NA	3,037.65
	09/20/06	111.00	96.00	NA	NA	3,037.69
	10/04/06	111.00	96.11	NA	NA	3,037.58
	12/08/06	115.05	96.09	NA	NA	3,037.60
	01/22/08	113.40	96.77	NA	NA	3,036.92
	08/27/09	113.20	97.09	NA	NA	3,036.60
	02/19/10	NM	96.26	NA	NA	3,037.43
	08/16/10	NM	96.23	NA	NA	3,037.46
	02/11/11	110.00	95.74	NA	NA	3,037.95
	08/02/11	113.43	95.22	NA	NA	3,038.47
	01/30/13	113.25	95.14	NA	NA	3,038.55
	07/30/13	112.95	95.19	NA	NA	3,038.50
	01/13/14	112.93	95.22	NA	NA	3,038.47
	07/14/14	112.94	95.21	NA	NA	3,038.48
	01/12/15	NM	95.25	NA	NA	3,038.44
	07/14/15	NM	94.98	NA	NA	3,038.71
	01/25/16	112.98	94.98	NA	NA	3,038.71
	07/20/16	NM	95.03	NA	NA	3,038.66
	01/12/17	NM	94.92	NA	NA	3,038.77
	07/13/17	NM	95.03	NA	NA	3,038.66
	01/12/18	NM	94.71	NA	NA	3,038.98
	07/02/18	NM	94.87	NA	NA	3,038.82
	01/09/19	NM	94.62	NA	NA	3,039.07
	07/11/19	113.25	94.48	NA	NA	3,039.21
	01/14/20	NM	94.37	NA	NA	3,039.32
	07/09/20	113.30	94.13	NA	NA	3,039.56
	01/06/21	113.31	94.22	NA	NA	3,039.47

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
44-J-5-MW						
3,134.75	06/13/06	110.00	96.83	NA	NA	3,037.92
	07/13/06	110.00	96.83	NA	NA	3,037.92
	08/07/06	110.00	97.00	NA	NA	3,037.75
	08/15/06	110.00	97.01	NA	NA	3,037.74
	09/13/06	110.00	97.05	NA	NA	3,037.70
	09/20/06	110.00	97.02	NA	NA	3,037.73
	10/04/06	110.00	97.13	NA	NA	3,037.62
	12/08/06	117.61	97.13	NA	NA	3,037.62
	01/22/08	113.70	97.53	NA	NA	3,037.22
	08/27/09	113.60	97.88	NA	NA	3,036.87
	08/16/10	NM	97.23	NA	NA	3,037.52
	02/11/11	NM	96.84	NA	NA	3,037.91
	08/02/11	113.71	96.32	NA	NA	3,038.43
	01/30/13	113.70	96.23	NA	NA	3,038.52
	07/30/13	113.23	96.30	NA	NA	3,038.45
	01/13/14	113.25	96.33	NA	NA	3,038.42
	07/14/14	113.20	96.30	NA	NA	3,038.45
	01/12/15	NM	96.38	NA	NA	3,038.37
	07/14/15	NM	96.10	NA	NA	3,038.65
	01/25/16	113.26	96.10	NA	NA	3,038.65
	07/20/16	NM	96.14	NA	NA	3,038.61
	01/12/17	NM	96.02	NA	NA	3,038.73
	07/13/17	NM	96.16	NA	NA	3,038.59
	01/12/18	NM	95.80	NA	NA	3,038.95
	07/02/18	NM	95.98	NA	NA	3,038.77
	01/09/19	NM	95.81	NA	NA	3,038.94
	07/11/19	113.11	95.59	NA	NA	3,039.16
	01/14/20	NM	95.48	NA	NA	3,039.27
	07/09/20	113.67	95.24	NA	NA	3,039.51
	01/06/21	113.68	95.35	NA	NA	3,039.40
45-E-1-MW						
NM	09/12/06	NM	88.92	NA	NA	NA
	12/08/06	105.50	89.15	NA	NA	NA
	02/13/07	107.06	88.51	NA	NA	NA
	02/28/07	NM	88.51	NA	NA	NA
	07/30/07	107.06	88.95	NA	NA	NA
	01/22/08	107.06	90.04	NA	NA	NA
	07/09/08	107.06	89.31	NA	NA	NA
	01/28/09	107.06	89.31	NA	NA	NA
	08/27/09	102.95	89.72	NA	NA	NA
	08/16/10	NM	90.37	NA	NA	NA
	02/11/11	NM	90.36	NA	NA	NA
	08/02/11	103.00	89.70	NA	NA	NA
	01/25/16	103.31	90.58	NA	NA	NA
	07/20/16	NM	90.65	NA	NA	NA
	01/12/17	NM	90.20	NA	NA	NA
	07/13/17	NM	89.96	NA	NA	NA
	01/12/18	NM	88.74	NA	NA	NA
	07/02/18	NM	88.37	NA	NA	NA
	01/09/19	NM	87.95	NA	NA	NA
	07/11/19	102.23	87.66	NA	NA	NA
	01/14/20	NM	87.44	NA	NA	NA
	07/09/20	102.90	87.16	NA	NA	NA
	01/06/21	102.91	87.13	NA	NA	NA

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
45-E-2-MW						
NM	09/12/06	NM	81.36	NA	NA	NA
	12/08/06	104.00	86.58	NA	NA	NA
	02/13/07	109.28	85.82	NA	NA	NA
	02/28/07	NM	85.82	NA	NA	NA
	07/30/07	109.28	86.49	NA	NA	NA
	01/22/08	109.28	86.58	NA	NA	NA
	07/09/08	109.28	86.86	NA	NA	NA
	01/28/09	109.28	86.79	NA	NA	NA
	08/26/09	104.20	87.28	NA	NA	NA
	08/16/10	NM	87.84	NA	NA	NA
	02/11/11	NM	88.03	NA	NA	NA
	08/02/11	104.25	87.21	NA	NA	NA
	08/15/12	104.23	87.82	NA	NA	NA
	01/25/16	104.48	88.34	NA	NA	NA
	07/20/16	NM	88.33	NA	NA	NA
	01/12/17	NM	87.93	NA	NA	NA
	07/13/17	NM	87.62	NA	NA	NA
	01/12/18	NM	86.23	NA	NA	NA
	07/02/18	NM	88.85	NA	NA	NA
	01/09/19	NM	85.41	NA	NA	NA
	07/11/19	104.10	85.11	NA	NA	NA
	01/14/20	NM	84.89	NA	NA	NA
	07/09/20	104.06	84.62	NA	NA	NA
	01/06/21	104.11	84.57	NA	NA	NA
45-E-3-MW						
NM	02/13/07	107.95	88.68	NA	NA	NA
	02/28/07	NM	88.68	NA	NA	NA
	07/26/07	107.95	89.30	NA	NA	NA
	01/22/08	107.95	89.54	NA	NA	NA
	07/08/08	107.95	89.70	NA	NA	NA
	01/28/06	107.95	89.70	NA	NA	NA
	08/26/09	110.00	90.06	NA	NA	NA
	08/16/10	NM	90.63	NA	NA	NA
	02/11/11	107.00	90.74	NA	NA	NA
	08/02/11	107.91	90.19	NA	NA	NA
	07/20/16	NM	91.05	NA	NA	NA
	01/11/17	NM	90.50	NA	NA	NA
	07/13/17	NM	90.37	NA	NA	NA
	01/12/18	NM	89.35	NA	NA	NA
	07/02/18	NM	88.75	NA	NA	NA
	01/09/19	NM	88.41	NA	NA	NA
	07/11/19	107.18	88.13	NA	NA	NA
	01/15/20	NM	87.87	NA	NA	NA
	07/07/20	107.91	87.66	NA	NA	NA
	01/06/21	107.91	87.66	NA	NA	NA

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
45-F-1-MW						
NM	06/13/06	108.19	90.99	NA	NA	NA
	09/12/06	NM	90.15	NA	NA	NA
	12/08/06	107.40	90.34	NA	NA	NA
	02/13/07	108.19	90.22	NA	NA	NA
	02/28/07	NM	90.02	NA	NA	NA
	07/30/07	108.19	90.22	NA	NA	NA
	01/22/08	108.19	90.52	NA	NA	NA
	07/09/08	108.19	90.63	NA	NA	NA
	01/28/09	108.19	90.81	NA	NA	NA
	08/27/09	106.80	90.93	NA	NA	NA
	08/16/10	NM	91.41	NA	NA	NA
	02/11/11	NM	91.52	NA	NA	NA
	08/02/11	107.03	91.15	NA	NA	NA
	08/15/12	108.02	91.40	NA	NA	NA
	01/30/13	106.82	91.29	NA	NA	NA
	07/30/13	107.90	91.70	NA	NA	NA
	01/14/13	107.94	91.71	NA	NA	NA
	07/14/14	107.87	91.53	NA	NA	NA
	01/12/15	NM	91.78	NA	NA	NA
	07/14/15	NM	91.62	NA	NA	NA
	01/25/16	107.90	91.72	NA	NA	NA
	07/20/16	NM	91.56	NA	NA	NA
	01/12/17	NM	91.40	NA	NA	NA
	07/13/17	NM	90.96	NA	NA	NA
	01/12/18	NM	90.44	NA	NA	NA
	07/02/18	NM	90.14	NA	NA	NA
	01/09/19	NM	89.78	NA	NA	NA
	07/11/19	106.79	89.49	NA	NA	NA
	01/14/20	NM	89.28	NA	NA	NA
	07/09/20	106.90	88.99	NA	NA	NA
	01/06/21	106.88	88.95	NA	NA	NA
45-FF-MW						
3,122.70	06/13/06	111.19	90.57	NA	NA	3,032.13
	09/12/06	NM	90.77	NA	NA	3,031.93
	12/08/06	114.00	90.94	NA	NA	3,031.76
	02/13/07	111.19	90.58	NA	NA	3,032.12
	02/28/07	NM	90.58	NA	NA	3,032.12
	07/30/07	111.19	90.81	NA	NA	3,031.89
	01/22/08	111.19	91.16	NA	NA	3,031.54
	07/09/08	111.19	91.22	NA	NA	3,031.48
	01/28/09	111.19	91.16	NA	NA	3,031.54
	08/27/09	107.50	91.54	NA	NA	3,031.16
	08/16/10	NM	92.01	NA	NA	3,030.69
	02/11/11	NM	92.19	NA	NA	3,030.51
	08/02/11	111.11	91.71	NA	NA	3,030.99
	01/30/13	110.91	91.92	NA	NA	3,030.78
	07/30/13	110.50	92.30	NA	NA	3,030.40
	01/13/14	110.51	92.33	NA	NA	3,030.37
	07/14/14	110.48	92.02	NA	NA	3,030.68
	01/12/15	NM	92.41	NA	NA	3,030.29
	07/14/15	NM	92.30	NA	NA	3,030.40
	01/25/16	110.94	92.36	NA	NA	3,030.34
	07/20/16	NM	92.16	NA	NA	3,030.54
	01/12/17	NM	91.96	NA	NA	3,030.74
	07/13/17	NM	91.55	NA	NA	3,031.15
	01/12/18	NM	90.90	NA	NA	3,031.80
	07/02/18	NM	90.54	NA	NA	3,032.16
	01/09/19	NM	90.31	NA	NA	3,032.39
	07/11/19	110.16	89.90	NA	NA	3,032.80
	01/14/20	NM	89.70	NA	NA	3,033.00
	07/09/20	110.80	89.43	NA	NA	3,033.27
	01/06/21	110.83	89.38	NA	NA	3,033.32

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
58-B-1-MW						
3,100.59	06/14/06	NM	NM	NA	NA	NA
	09/12/06	NM	87.12	NA	NA	3,013.47
	12/08/06	106.20	87.06	NA	NA	3,013.53
	02/13/07	105.50	87.02	NA	NA	3,013.57
	02/28/07	NM	87.02	NA	NA	3,013.57
	07/26/07	105.50	87.37	NA	NA	3,013.22
	01/22/08	105.50	87.79	NA	NA	3,012.80
	07/08/08	105.50	87.67	NA	NA	3,012.92
	01/28/09	104.79	87.67	NA	NA	3,012.92
	08/26/09	104.80	87.77	NA	NA	3,012.82
	08/16/10	NM	87.88	NA	NA	3,012.71
	02/11/11	NM	87.43	NA	NA	3,013.16
	08/05/11	104.55	87.00	NA	NA	3,013.59
	08/15/12	104.59	88.12	NA	NA	3,012.47
	01/30/13	107.53	87.76	NA	NA	3,012.83
	07/30/13	104.50	88.56	NA	NA	3,012.03
	01/13/14	104.56	88.60	NA	NA	3,011.99
	07/14/14	104.47	87.92	NA	NA	3,012.67
	01/12/15	NM	88.38	NA	NA	3,012.21
	07/22/16	NM	87.70	NA	NA	3,012.89
	01/13/17	NM	87.20	NA	NA	3,013.39
	07/13/17	NM	86.71	NA	NA	3,013.88
	01/12/18	NM	85.34	NA	NA	3,015.25
	07/02/18	NM	86.12	NA	NA	3,014.47
	01/07/19	NM	85.76	NA	NA	3,014.83
	07/09/19	104.40	85.69	NA	NA	3,014.90
	01/14/20	NM	85.52	NA	NA	3,015.07
	07/08/20	104.43	85.33	NA	NA	3,015.26
	01/05/21	104.47	85.16	NA	NA	3,015.43
58-B-2-MW						
3,111.91	06/14/06	NM	NM	NA	NA	NA
	09/12/06	NM	85.80	NA	NA	3,026.11
	12/08/06	NM	85.60	NA	NA	3,026.31
	02/13/07	105.45	85.61	NA	NA	3,026.30
	02/28/07	NM	85.61	NA	NA	3,026.30
	07/26/07	105.45	85.88	NA	NA	3,026.03
	01/22/08	105.45	86.28	NA	NA	3,025.63
	07/08/08	105.45	86.16	NA	NA	3,025.75
	01/28/09	105.45	86.23	NA	NA	3,025.68
	08/26/09	104.50	86.33	NA	NA	3,025.58
	08/16/10	NM	86.42	NA	NA	3,025.49
	02/11/11	NM	86.11	NA	NA	3,025.80
	08/02/11	105.12	85.75	NA	NA	3,026.16
	08/15/12	105.43	86.70	NA	NA	3,025.21
	07/14/15	NM	88.61	NA	NA	3,023.30
	01/25/16	105.08	85.92	NA	NA	3,025.99
	07/22/16	NM	86.40	NA	NA	3,025.51
	01/13/17	NM	85.92	NA	NA	3,025.99
	07/13/17	NM	85.55	NA	NA	3,026.36
	01/12/18	NM	86.47	NA	NA	3,025.44
	07/02/18	NM	85.10	NA	NA	3,026.81
	01/07/19	NM	84.75	NA	NA	3,027.16
	07/09/19	104.47	84.67	NA	NA	3,027.24
	01/14/20	NM	84.52	NA	NA	3,027.39
	07/09/20	104.61	84.36	NA	NA	3,027.55
	01/05/21	104.66	84.14	NA	NA	3,027.77

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
58-B-3-MW						
3,108.46	02/13/07	100.75	89.48	NA	NA	3,018.98
	02/28/07	NM	89.48	NA	NA	3,018.98
	07/26/07	100.75	89.39	NA	NA	3,019.07
	01/22/08	100.75	89.71	NA	NA	3,018.75
	07/08/08	100.75	89.75	NA	NA	3,018.71
	01/28/09	100.75	89.81	NA	NA	3,018.65
	08/26/09	104.00	89.88	NA	NA	3,018.58
	08/16/10	NM	90.05	NA	NA	3,018.41
	02/11/11	102.00	90.02	NA	NA	3,018.44
	08/02/11	100.68	89.97	NA	NA	3,018.49
	08/15/12	100.73	90.11	NA	NA	3,018.35
	01/30/13	100.89	90.16	NA	NA	3,018.30
	07/30/13	100.80	90.24	NA	NA	3,018.22
	01/13/14	100.80	90.33	NA	NA	3,018.13
	07/14/14	100.79	90.39	NA	NA	3,018.07
	01/12/15	NM	89.80	NA	NA	3,018.66
	07/14/15	NM	90.06	NA	NA	3,018.40
	01/25/16	100.78	90.08	NA	NA	3,018.38
	07/22/16	NM	90.14	NA	NA	3,018.32
	01/10/17	NM	90.02	NA	NA	3,018.44
	07/13/17	NM	89.88	NA	NA	3,018.58
	01/12/18	NM	89.78	NA	NA	3,018.68
	07/02/18	NM	89.62	NA	NA	3,018.84
	01/07/19	NM	89.36	NA	NA	3,019.10
	07/09/19	100.68	89.37	NA	NA	3,019.09
	01/13/20	NM	89.23	NA	NA	3,019.23
	07/07/20	100.71	89.14	NA	NA	3,019.32
	01/05/21	100.73	89.08	NA	NA	3,019.38
MW-2						
3,204.56	8/7/2015	NM	104.07	NA	NA	3,100.49
	1/25/2016	109.14	109.05	NA	NA	3,095.51
	7/21/2016	NM	109.10	NA	NA	3,095.46
	1/12/2017	NM	109.20	NA	NA	3,095.36
	4/10/2017	109.71	DRY	NA	NA	DRY
	7/13/2017	NM	109.14	NA	NA	3,095.42
	10/3/2017	109.33	DRY	NA	NA	DRY
	1/12/2018	109.15	DRY	NA	NA	DRY
	4/2/2018	109.15	DRY	NA	NA	DRY
	07/02/18	109.15	DRY	NA	NA	DRY
	10/1/2018	109.58	DRY	NA	NA	DRY
	1/8/2019	109.70	DRY	NA	NA	DRY
	4/9/2019	109.45	DRY	NA	NA	DRY
	7/9/2019	109.14	DRY	NA	NA	DRY
	10/9/2019	NM	DRY	NA	NA	DRY
	1/16/2020	NM	DRY	NA	NA	DRY
	4/7/2020	109.11	DRY	NA	NA	DRY
	7/6/2020	109.09	DRY	NA	NA	DRY
	10/12//20	109.13	DRY	NA	NA	DRY
	1/6/2021	109.13	DRY	NA	NA	DRY

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-3						
3,199.51	8/7/2015	NM	112.88	NA	NA	3,086.63
	1/25/2016	119.30	112.95	NA	NA	3,086.56
	7/21/2016	NM	113.02	NA	NA	3,086.49
	1/11/2017	NM	112.95	NA	NA	3,086.56
	4/10/2017	NM	113.17	NA	NA	3,086.34
	7/13/2017	NM	113.04	NA	NA	3,086.47
	10/3/2017	NM	113.11	NA	NA	3,086.40
	1/12/2018	NM	113.04	NA	NA	3,086.47
	4/2/2018	NM	113.20	NA	NA	3,086.31
	07/02/18	NM	113.09	NA	NA	3,086.42
	10/1/2018	NM	113.14	NA	NA	3,086.37
	1/8/2019	NM	113.10	NA	NA	3,086.41
	4/9/2019	NM	113.13	NA	NA	3,086.38
	7/10/2019	119.39	113.19	NA	NA	3,086.32
	10/9/2019	NM	113.78	NA	NA	3,085.73
	1/16/2020	NM	113.29	NA	NA	3,086.22
	4/7/2020	119.44	113.24	NA	NA	3,086.27
	7/6/2020	119.38	113.28	NA	NA	3,086.23
	10/12/2020	119.39	113.30	NA	NA	3,086.21
	1/6/2021	119.39	113.37	NA	NA	3,086.14
MW-4						
3,189.69	8/7/2015	NM	115.53	NA	NA	3,074.16
	1/25/2016	116.91	115.60	NA	NA	3,074.09
	7/21/2016	NM	115.65	NA	NA	3,074.04
	1/11/2017	NM	115.55	NA	NA	3,074.14
	4/10/2017	117.74	115.67	NA	NA	3,074.02
	7/13/2017	NM	115.64	NA	NA	3,074.05
	10/3/2017	118.13	115.65	NA	NA	3,074.04
	1/12/2018	NM	115.60	NA	NA	3,074.09
	4/2/2018	NM	115.70	NA	NA	3,073.99
	07/02/18	NM	115.61	NA	NA	3,074.08
	10/1/2018	NM	115.72	NA	NA	3,073.97
	1/8/2019	NM	115.65	NA	NA	3,074.04
	4/9/2019	NM	115.70	NA	NA	3,073.99
	7/10/2019	116.93	115.74	NA	NA	3,073.95
	10/9/2019	NM	115.93	NA	NA	3,073.76
	1/16/2020	NM	115.86	NA	NA	3,073.83
	4/7/2020	117.55	115.76	NA	NA	3,073.93
	7/6/2020	117.04	115.80	NA	NA	3,073.89
	10/12/2020	117.06	115.85	NA	NA	3,073.84
	1/6/2021	117.06	115.85	NA	NA	3,073.84
MW-5						
3,174.43	8/7/2015	NM	102.74	NA	NA	3,071.69
	1/25/2016	116.91	102.78	NA	NA	3,071.65
	7/21/2016	NM	102.84	NA	NA	3,071.59
	1/11/2017	NM	102.80	NA	NA	3,071.63
	4/10/2017	116.95	102.85	NA	NA	3,071.58
	7/13/2017	NM	102.88	NA	NA	3,071.55
	10/3/2017	NM	102.91	NA	NA	3,071.52
	1/12/2018	NM	102.95	NA	NA	3,071.48
	4/2/2018	NM	102.94	NA	NA	3,071.49
	07/02/18	NM	102.93	NA	NA	3,071.50
	10/1/2018	NM	103.00	NA	NA	3,071.43
	1/8/2019	NM	102.90	NA	NA	3,071.53
	4/9/2019	NM	102.99	NA	NA	3,071.44
	7/10/2019	116.96	103.00	NA	NA	3,071.43
	10/9/2019	NM	103.02	NA	NA	3,071.41
	1/16/2020	NM	103.07	NA	NA	3,071.36
	4/7/2020	116.97	103.03	NA	NA	3,071.40
	7/6/2020	116.94	103.05	NA	NA	3,071.38
	10/12/2020	116.96	103.09	NA	NA	3,071.34
	1/7/2021	116.96	103.11	NA	NA	3,071.32

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-6						
3,165.25	8/7/2015	NM	93.97	NA	NA	3,071.28
	1/25/2016	130.94	94.21	NA	NA	3,071.04
	7/21/2016	NM	94.28	NA	NA	3,070.97
	1/11/2017	NM	94.01	NA	NA	3,071.24
	4/10/2017	130.83	94.21	NA	NA	3,071.04
	7/13/2017	NM	94.11	NA	NA	3,071.14
	10/3/2017	NM	94.14	NA	NA	3,071.11
	1/12/2018	NM	93.80	NA	NA	3,071.45
	4/2/2018	NM	94.18	NA	NA	3,071.07
	07/02/18	NM	93.89	NA	NA	3,071.36
	10/1/2018	NM	93.90	NA	NA	3,071.35
	1/8/2019	NM	93.94	NA	NA	3,071.31
	4/9/2019	NM	93.74	NA	NA	3,071.51
	7/10/2019	128.94	93.92	NA	NA	3,071.33
	10/9/2019	NM	93.80	NA	NA	3,071.45
	1/15/2020	NM	94.01	NA	NA	3,071.24
	4/7/2020	130.92	93.99	NA	NA	3,071.26
	7/8/2020	130.89	94.03	NA	NA	3,071.22
	10/12/220	130.92	94.17	NA	NA	3,071.08
	1/7/2021	130.92	94.28	NA	NA	3,070.97
MW-7						
3,132.14	8/7/2015	NM	112.10	NA	NA	3,020.04
	1/25/2016	117.20	112.77	NA	NA	3,019.37
	7/21/2016	NM	114.50	NA	NA	3,017.64
	1/11/2017	NM	115.92	NA	NA	3,016.22
	4/10/2017	116.73	DRY	NA	NA	DRY
	7/13/2017	116.55	DRY	NA	NA	DRY
	10/3/2017	116.46	DRY	NA	NA	DRY
	1/12/2018	NM	DRY	NA	NA	DRY
	4/2/2018	116.66	DRY	NA	NA	DRY
	07/02/18	116.70	DRY	NA	NA	DRY
	10/1/2018	116.61	DRY	NA	NA	DRY
	1/8/2019	116.61	DRY	NA	NA	DRY
	4/5/2019	117.09	DRY	NA	NA	DRY
	7/10/2019	116.59	DRY	NA	NA	DRY
	10/8/2019	NM	DRY	NA	NA	DRY
	1/14/2020	NM	DRY	NA	NA	DRY
	4/7/2020	116.60	DRY	NA	NA	DRY
	7/8/2020	116.59	DRY	NA	NA	DRY
	10/12/2020	116.61	DRY	NA	NA	DRY
	1/5/2021	116.61	DRY	NA	NA	DRY
MW-8						
3,107.34	8/7/2015	NM	85.03	NA	NA	3,022.31
	1/25/2016	110.98	85.46	NA	NA	3,021.88
	7/21/2016	NM	85.10	NA	NA	3,022.24
	1/13/2017	NM	84.95	NA	NA	3,022.39
	4/7/2017	110.98	85.00	NA	NA	3,022.34
	7/13/2017	NM	84.68	NA	NA	3,022.66
	10/3/2017	NM	84.86	NA	NA	3,022.48
	1/12/2018	NM	84.75	NA	NA	3,022.59
	4/2/2018	NM	85.20	NA	NA	3,022.14
	07/02/18	NM	85.09	NA	NA	3,022.25
	10/1/2018	NM	84.83	NA	NA	3,022.51
	1/8/2019	NM	84.81	NA	NA	3,022.53
	4/5/2019	NM	84.52	NA	NA	3,022.82
	7/9/2019	110.97	84.45	NA	NA	3,022.89
	10/8/2019	NM	84.33	NA	NA	3,023.01
	1/14/2020	NM	84.42	NA	NA	3,022.92
	4/7/2020	111.00	84.35	NA	NA	3,022.99
	7/8/2020	110.97	84.23	NA	NA	3,023.11
	10/12/2020	110.97	84.26	NA	NA	3,023.08
	1/5/2021	110.98	84.25	NA	NA	3,023.09
	4/6/2021	110.98	83.91	NA	NA	3,023.43

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-9						
3,103.82	8/7/2015	NM	85.68	NA	NA	3,018.14
	1/25/2016	105.30	85.87	NA	NA	3,017.95
	7/21/2016	NM	85.80	NA	NA	3,018.02
	1/13/2017	NM	85.76	NA	NA	3,018.06
	4/7/2017	105.28	85.65	NA	NA	3,018.17
	7/13/2017	NM	85.50	NA	NA	3,018.32
	10/3/2017	NM	85.53	NA	NA	3,018.29
	1/12/2018	NM	85.38	NA	NA	3,018.44
	4/2/2018	NM	85.73	NA	NA	3,018.09
	07/02/18	NM	85.24	NA	NA	3,018.58
	10/1/2018	NM	85.24	NA	NA	3,018.58
	1/7/2019	NM	85.05	NA	NA	3,018.77
	4/5/2019	NM	85.09	NA	NA	3,018.73
	7/9/2019	102.06	85.02	NA	NA	3,018.80
	10/8/2019	NM	84.93	NA	NA	3,018.89
	1/15/2020	NM	85.02	NA	NA	3,018.80
	4/7/2020	101.63	84.91	NA	NA	3,018.91
	7/8/2020	101.65	84.85	NA	NA	3,018.97
	10/12/2020	101.66	84.82	NA	NA	3,019.00
	1/5/2021	101.63	84.75	NA	NA	3,019.07
	4/6/2021	101.63	84.65	NA	NA	3,019.17
MW-10						
3,139.71	8/7/2015	NM	97.21	NA	NA	3,042.50
	1/25/2016	116.50	97.33	NA	NA	3,042.38
	7/20/2016	NM	97.18	NA	NA	3,042.53
	1/12/2017	NM	97.21	NA	NA	3,042.50
	4/7/2017	116.36	97.22	NA	NA	3,042.49
	7/13/2017	NM	97.12	NA	NA	3,042.59
	10/3/2017	NM	97.35	NA	NA	3,042.36
	1/12/2018	NM	97.30	NA	NA	3,042.41
	4/2/2018	NM	97.41	NA	NA	3,042.30
	07/02/18	NM	97.24	NA	NA	3,042.47
	10/1/2018	NM	97.35	NA	NA	3,042.36
	1/8/2019	NM	97.35	NA	NA	3,042.36
	4/5/2019	NM	97.22	NA	NA	3,042.49
	7/9/2019	116.65	97.22	NA	NA	3,042.49
	10/8/2019	NM	97.12	NA	NA	3,042.59
	1/15/2020	NM	97.32	NA	NA	3,042.39
	4/7/2020	116.38	97.17	NA	NA	3,042.54
	7/8/2020	116.36	97.14	NA	NA	3,042.57
	10/12/2020	116.36	97.19	NA	NA	3,042.52
	1/7/2021	116.39	97.17	NA	NA	3,042.54
MW-11						
3,156.65	8/7/2015	NM	102.00	NA	NA	3,054.65
	1/25/2016	110.23	102.08	NA	NA	3,054.57
	7/21/2016	NM	102.16	NA	NA	3,054.49
	1/11/2017	NM	102.10	NA	NA	3,054.55
	4/10/2017	110.02	102.22	NA	NA	3,054.43
	7/13/2017	NM	102.22	NA	NA	3,054.43
	10/3/2017	NM	102.28	NA	NA	3,054.37
	1/12/2018	NM	102.18	NA	NA	3,054.47
	4/2/2018	NM	102.39	NA	NA	3,054.26
	07/02/18	NM	102.28	NA	NA	3,054.37
	10/1/2018	NM	102.35	NA	NA	3,054.30
	1/8/2019	NM	102.35	NA	NA	3,054.30
	4/9/2019	NM	102.45	NA	NA	3,054.20
	7/10/2019	110.03	102.41	NA	NA	3,054.24
	10/9/2019	NM	102.36	NA	NA	3,054.29
	1/15/2020	NM	102.47	NA	NA	3,054.18
	4/7/2020	110.09	102.45	NA	NA	3,054.20
	7/8/2020	110.03	102.44	NA	NA	3,054.21
	10/12/2020	110.02	102.54	NA	NA	3,054.11
	1/7/2021	110.04	102.59	NA	NA	3,054.06

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-12						
3,151.33	8/7/2015	NM	94.70	NA	NA	3,056.63
	1/25/2016	114.18	94.68	NA	NA	3,056.65
	7/20/2016	NM	94.69	NA	NA	3,056.64
	1/11/2017	NM	94.70	NA	NA	3,056.63
	4/7/2017	114.15	94.66	NA	NA	3,056.67
	7/13/2017	NM	94.60	NA	NA	3,056.73
	10/3/2017	NM	94.87	NA	NA	3,056.46
	1/12/2018	NM	94.66	NA	NA	3,056.67
	4/2/2018	NM	94.74	NA	NA	3,056.59
	07/02/18	NM	94.71	NA	NA	3,056.62
	10/1/2018	NM	94.87	NA	NA	3,056.46
	1/8/2019	NM	94.92	NA	NA	3,056.41
	4/10/2019	NM	94.75	NA	NA	3,056.58
	7/9/2019	114.14	94.85	NA	NA	3,056.48
	10/8/2019	NM	94.71	NA	NA	3,056.62
	1/15/2020	NM	94.97	NA	NA	3,056.36
	4/7/2020	114.16	94.85	NA	NA	3,056.48
	7/8/2020	114.14	94.85	NA	NA	3,056.48
	10/12/2020	114.14	94.97	NA	NA	3,056.36
	1/7/2021	114.14	94.95	NA	NA	3,056.38
MW-13						
3,168.41	8/7/2015	NM	98.61	NA	NA	3,069.80
	1/25/2016	127.85	98.88	NA	NA	3,069.53
	7/21/2016	NM	98.78	NA	NA	3,069.63
	1/11/2017	NM	98.49	NA	NA	3,069.92
	4/10/2017	127.90	98.70	NA	NA	3,069.71
	7/13/2017	NM	98.60	NA	NA	3,069.81
	10/3/2017	NM	98.70	NA	NA	3,069.71
	1/12/2018	NM	98.61	NA	NA	3,069.80
	4/2/2018	NM	98.80	NA	NA	3,069.61
	07/02/18	NM	98.74	NA	NA	3,069.67
	10/1/2018	NM	98.88	NA	NA	3,069.53
	1/8/2019	NM	98.90	NA	NA	3,069.51
	4/10/2019	NM	98.83	NA	NA	3,069.58
	7/10/2019	127.89	98.88	NA	NA	3,069.53
	10/9/2019	NM	98.94	NA	NA	3,069.47
	1/16/2020	NM	98.99	NA	NA	3,069.42
	4/8/2020	127.95	98.89	NA	NA	3,069.52
	7/6/2020	127.86	98.95	NA	NA	3,069.46
	10/12/2020	127.89	99.01	NA	NA	3,069.40
	1/6/2021	127.89	99.09	NA	NA	3,069.32
MW-14						
3,182.69	8/7/2015	NM	106.69	NA	NA	3,076.00
	1/25/2016	124.62	106.78	NA	NA	3,075.91
	7/21/2016	NM	106.90	NA	NA	3,075.79
	1/11/2017	NM	106.78	NA	NA	3,075.91
	4/10/2017	124.48	107.01	NA	NA	3,075.68
	7/13/2017	NM	106.88	NA	NA	3,075.81
	10/3/2017	NM	106.95	NA	NA	3,075.74
	1/12/2018	NM	106.85	NA	NA	3,075.84
	4/2/2018	NM	107.00	NA	NA	3,075.69
	07/02/18	NM	106.91	NA	NA	3,075.78
	10/1/2018	NM	106.98	NA	NA	3,075.71
	1/8/2019	NM	106.97	NA	NA	3,075.72
	4/9/2019	NM	106.96	NA	NA	3,075.73
	7/10/2019	124.43	107.00	NA	NA	3,075.69
	10/9/2019	NM	106.96	NA	NA	3,075.73
	1/16/2020	NM	107.06	NA	NA	3,075.63
	4/8/2020	124.43	106.99	NA	NA	3,075.70
	7/6/2020	124.47	107.02	NA	NA	3,075.67
	10/12/2020	124.48	107.05	NA	NA	3,075.64
	1/6/2021	124.48	107.06	NA	NA	3,075.63

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-15						
3,184.55	8/7/2015	NM	104.29	NA	NA	3,080.26
	1/25/2016	126.36	104.56	NA	NA	3,079.99
	7/21/2016	NM	104.60	NA	NA	3,079.95
	1/11/2017	NM	104.45	NA	NA	3,080.10
	4/10/2017	NM	104.76	NA	NA	3,079.79
	7/13/2017	NM	104.52	NA	NA	3,080.03
	10/3/2017	NM	104.66	NA	NA	3,079.89
	1/12/2018	NM	104.45	NA	NA	3,080.10
	4/2/2018	NM	104.63	NA	NA	3,079.92
	07/02/18	NM	104.56	NA	NA	3,079.99
	10/1/2018	NM	104.57	NA	NA	3,079.98
	1/8/2019	NM	104.54	NA	NA	3,080.01
	4/10/2019	NM	104.50	NA	NA	3,080.05
	7/10/2019	126.59	104.49	NA	NA	3,080.06
	10/9/2019	NM	104.35	NA	NA	3,080.20
	1/16/2020	NM	104.51	NA	NA	3,080.04
	4/8/2020	126.64	104.42	NA	NA	3,080.13
	7/6/2020	126.61	104.43	NA	NA	3,080.12
	10/12/2020	126.61	104.44	NA	NA	3,080.11
	1/6/2021	126.61	104.51	NA	NA	3,080.04
MW-16						
3,167.93	8/7/2015	NM	99.76	NA	NA	3,068.17
	1/25/2016	119.30	99.86	NA	NA	3,068.07
	7/21/2016	NM	100.02	NA	NA	3,067.91
	1/11/2017	NM	99.88	NA	NA	3,068.05
	4/10/2017	119.07	100.03	NA	NA	3,067.90
	7/13/2017	NM	99.94	NA	NA	3,067.99
	10/3/2017	NM	100.01	NA	NA	3,067.92
	1/12/2018	NM	99.83	NA	NA	3,068.10
	4/2/2018	NM	99.97	NA	NA	3,067.96
	07/02/18	NM	99.92	NA	NA	3,068.01
	10/1/2018	NM	99.93	NA	NA	3,068.00
	1/8/2019	NM	99.86	NA	NA	3,068.07
	4/10/2019	NM	99.86	NA	NA	3,068.07
	7/10/2019	119.06	99.83	NA	NA	3,068.10
	10/9/2019	NM	99.72	NA	NA	3,068.21
	1/16/2020	NM	99.80	NA	NA	3,068.13
	4/8/2020	119.10	99.70	NA	NA	3,068.23
	7/6/2020	119.05	99.72	NA	NA	3,068.21
	10/12/2020	119.06	99.73	NA	NA	3,068.20
	1/6/2021	119.06	99.72	NA	NA	3,068.21
MW-17						
3,147.44	8/7/2015	NM	83.74	NA	NA	3,063.70
	1/25/2016	118.27	84.18	NA	NA	3,063.26
	7/20/2016	NM	82.79	NA	NA	3,064.65
	1/11/2017	NM	83.75	NA	NA	3,063.69
	4/10/2017	118.26	84.27	NA	NA	3,063.17
	7/13/2017	NM	84.06	NA	NA	3,063.38
	10/3/2017	NM	84.08	NA	NA	3,063.36
	1/12/2018	NM	83.79	NA	NA	3,063.65
	4/2/2018	NM	84.26	NA	NA	3,063.18
	07/02/18	NM	84.32	NA	NA	3,063.12
	10/1/2018	NM	84.41	NA	NA	3,063.03
	1/8/2019	NM	84.25	NA	NA	3,063.19
	4/10/2019	NM	84.02	NA	NA	3,063.42
	7/10/2019	118.20	84.15	NA	NA	3,063.29
	10/9/2019	NM	84.09	NA	NA	3,063.35
	1/16/2020	NM	84.24	NA	NA	3,063.20
	4/8/2020	118.34	84.15	NA	NA	3,063.29
	7/6/2020	118.31	84.28	NA	NA	3,063.16
	10/12/2020	118.32	84.36	NA	NA	3,063.08
	1/7/2021	118.32	84.48	NA	NA	3,062.96

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-18						
3,155.01	8/7/2015	NM	95.94	NA	NA	3,059.07
	1/25/2016	122.40	95.81	NA	NA	3,059.20
	7/20/2016	NM	95.91	NA	NA	3,059.10
	1/12/2017	NM	95.82	NA	NA	3,059.19
	4/7/2017	122.37	95.76	NA	NA	3,059.25
	7/13/2017	NM	95.67	NA	NA	3,059.34
	10/3/2017	NM	95.87	NA	NA	3,059.14
	1/12/2018	NM	95.72	NA	NA	3,059.29
	4/2/2018	NM	95.80	NA	NA	3,059.21
	07/02/18	NM	95.74	NA	NA	3,059.27
	10/1/2018	NM	95.90	NA	NA	3,059.11
	1/8/2019	NM	95.88	NA	NA	3,059.13
	4/9/2019	NM	95.76	NA	NA	3,059.25
	7/10/2019	122.35	95.89	NA	NA	3,059.12
	10/9/2019	NM	95.84	NA	NA	3,059.17
	1/15/2020	NM	95.92	NA	NA	3,059.09
	4/7/2020	122.47	95.83	NA	NA	3,059.18
	7/8/2020	122.33	95.81	NA	NA	3,059.20
	10/12/2020	122.35	95.96	NA	NA	3,059.05
	1/7/2021	122.36	95.96	NA	NA	3,059.05
MW-19						
3,149.90	8/7/2015	NM	99.58	NA	NA	3,050.32
	1/25/2016	115.04	99.68	NA	NA	3,050.22
	7/20/2016	NM	99.78	NA	NA	3,050.12
	1/12/2017	NM	99.68	NA	NA	3,050.22
	4/7/2017	115.03	99.78	NA	NA	3,050.12
	7/13/2017	NM	99.61	NA	NA	3,050.29
	10/3/2017	NM	99.83	NA	NA	3,050.07
	1/12/2018	NM	99.63	NA	NA	3,050.27
	4/2/2018	NM	99.69	NA	NA	3,050.21
	07/02/18	NM	99.85	NA	NA	3,050.05
	10/1/2018	NM	99.75	NA	NA	3,050.15
	1/8/2019	NM	99.78	NA	NA	3,050.12
	4/9/2019	NM	99.56	NA	NA	3,050.34
	7/10/2019	114.99	99.69	NA	NA	3,050.21
	10/9/2019	NM	99.54	NA	NA	3,050.36
	1/15/2020	NM	99.67	NA	NA	3,050.23
	4/7/2020	115.01	99.56	NA	NA	3,050.34
	7/8/2020	115.00	99.48	NA	NA	3,050.42
	10/12/2020	115.01	99.58	NA	NA	3,050.32
	1/7/2021	115.01	99.59	NA	NA	3,050.31
MW-20						
3,120.09	8/7/2015	NM	88.96	NA	NA	3,031.13
	1/25/2016	112.91	88.96	NA	NA	3,031.13
	7/20/2016	NM	89.07	NA	NA	3,031.02
	1/12/2017	NM	89.00	NA	NA	3,031.09
	4/7/2017	112.65	88.97	NA	NA	3,031.12
	7/13/2017	NM	88.76	NA	NA	3,031.33
	10/3/2017	NM	88.88	NA	NA	3,031.21
	1/12/2018	NM	88.75	NA	NA	3,031.34
	4/2/2018	NM	88.67	NA	NA	3,031.42
	07/02/18	NM	88.69	NA	NA	3,031.40
	10/1/2018	NM	88.59	NA	NA	3,031.50
	1/8/2019	NM	88.57	NA	NA	3,031.52
	4/5/2019	NM	88.37	NA	NA	3,031.72
	7/9/2019	112.53	88.31	NA	NA	3,031.78
	10/8/2019	NM	88.19	NA	NA	3,031.90
	1/14/2020	NM	88.27	NA	NA	3,031.82
	4/7/2020	112.51	88.15	NA	NA	3,031.94
	7/9/2020	112.53	88.07	NA	NA	3,032.02
	10/12/2020	112.55	88.09	NA	NA	3,032.00
	1/7/2021	112.55	88.03	NA	NA	3,032.06

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-21						
3,159.65	7/21/2016	NM	92.31	NA	NA	3,067.34
	1/12/2017	NM	92.41	NA	NA	3,067.24
	4/10/2017	123.74	92.65	NA	NA	3,067.00
	7/13/2017	NM	92.55	NA	NA	3,067.10
	10/3/2017	NM	92.65	NA	NA	3,067.00
	1/12/2018	NM	92.47	NA	NA	3,067.18
	4/2/2018	NM	92.64	NA	NA	3,067.01
	07/02/18	NM	92.65	NA	NA	3,067.00
	10/1/2018	NM	92.74	NA	NA	3,066.91
	1/8/2019	NM	92.73	NA	NA	3,066.92
	4/10/2019	NM	92.64	NA	NA	3,067.01
	7/10/2019	123.75	92.70	NA	NA	3,066.95
	10/9/2019	NM	92.61	NA	NA	3,067.04
	1/16/2020	NM	92.80	NA	NA	3,066.85
	4/8/2020	123.76	92.65	NA	NA	3,067.00
	7/6/2020	123.75	92.72	NA	NA	3,066.93
	10/12/2020	123.75	92.78	NA	NA	3,066.87
	1/7/2021	123.75	92.72	NA	NA	3,066.93
MW-22						
3,152.50	4/10/2017	117.94	87.78	NA	NA	3,064.72
	7/13/2017	NM	87.64	NA	NA	3,064.86
	10/3/2017	NM	87.71	NA	NA	3,064.79
	1/12/2018	NM	87.50	NA	NA	3,065.00
	4/2/2018	NM	87.75	NA	NA	3,064.75
	07/02/18	NM	87.75	NA	NA	3,064.75
	10/1/2018	NM	87.85	NA	NA	3,064.65
	1/8/2019	NM	87.90	NA	NA	3,064.60
	4/10/2019	NM	87.79	NA	NA	3,064.71
	7/10/2019	114.81	87.93	NA	NA	3,064.57
	10/9/2019	NM	87.80	NA	NA	3,064.70
	1/16/2020	NM	88.03	NA	NA	3,064.47
	4/8/2020	117.15	87.91	NA	NA	3,064.59
	7/6/2020	117.24	87.99	NA	NA	3,064.51
	10/12/2020	117.23	88.04	NA	NA	3,064.46
	1/7/2021	117.14	88.11	NA	NA	3,064.39
MW-23						
3,151.66	7/21/2016	NM	87.03	NA	NA	3,064.63
	1/11/2017	NM	86.74	NA	NA	3,064.92
	4/10/2017	124.94	87.02	NA	NA	3,064.64
	7/13/2017	NM	86.86	NA	NA	3,064.80
	10/3/2017	NM	86.95	NA	NA	3,064.71
	1/12/2018	NM	86.75	NA	NA	3,064.91
	4/2/2018	NM	86.98	NA	NA	3,064.68
	07/02/18	NM	86.98	NA	NA	3,064.68
	10/1/2018	NM	87.08	NA	NA	3,064.58
	1/8/2019	NM	87.17	NA	NA	3,064.49
	4/10/2019	NM	87.02	NA	NA	3,064.64
	7/10/2019	104.97	87.12	NA	NA	3,064.54
	10/9/2019	NM	87.06	NA	NA	3,064.60
	1/16/2020	NM	87.26	NA	NA	3,064.40
	4/8/2020	124.89	87.12	NA	NA	3,064.54
	7/6/1930	124.88	87.21	NA	NA	3,064.45
	10/12/2020	124.91	87.26	NA	NA	3,064.40
	1/7/2021	124.93	87.34	NA	NA	3,064.32

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-24						
3,144.88	7/20/2016	NM	95.02	NA	NA	3,049.86
	1/12/2017	NM	95.11	NA	NA	3,049.77
	4/7/2017	115.39	95.15	NA	NA	3,049.73
	7/13/2017	NM	95.11	NA	NA	3,049.77
	10/3/2017	NM	95.33	NA	NA	3,049.55
	1/12/2018	NM	95.18	NA	NA	3,049.70
	4/2/2018	NM	95.23	NA	NA	3,049.65
	07/02/18	NM	95.12	NA	NA	3,049.76
	10/1/2018	NM	95.25	NA	NA	3,049.63
	1/8/2019	NM	95.22	NA	NA	3,049.66
	4/9/2019	NM	95.05	NA	NA	3,049.83
	7/9/2019	115.43	95.08	NA	NA	3,049.80
	10/8/2019	NM	95.03	NA	NA	3,049.85
	1/15/2020	NM	95.19	NA	NA	3,049.69
	4/7/2020	115.46	95.06	NA	NA	3,049.82
	7/8/2020	115.42	95.10	NA	NA	3,049.78
	10/12/2020	115.43	95.24	NA	NA	3,049.64
	1/7/2021	115.44	95.24	NA	NA	3,049.64
MW-25						
3,165.45	7/21/2016	NM	103.05	NA	NA	3,062.40
	1/11/2017	NM	103.00	NA	NA	3,062.45
	4/10/2017	116.81	103.26	NA	NA	3,062.19
	7/13/2017	NM	103.17	NA	NA	3,062.28
	10/3/2017	NM	103.20	NA	NA	3,062.25
	1/12/2018	NM	103.04	NA	NA	3,062.41
	4/2/2018	NM	103.50	NA	NA	3,061.95
	07/02/18	NM	103.29	NA	NA	3,062.16
	10/1/2018	NM	103.34	NA	NA	3,062.11
	1/8/2019	NM	103.39	NA	NA	3,062.06
	4/9/2019	NM	103.28	NA	NA	3,062.17
	7/10/2019	116.79	103.38	NA	NA	3,062.07
	10/9/2019	NM	103.31	NA	NA	3,062.14
	1/15/2020	NM	103.45	NA	NA	3,062.00
	4/7/2020	116.81	103.41	NA	NA	3,062.04
	7/8/2020	116.82	103.44	NA	NA	3,062.01
	10/12/2020	116.83	103.49	NA	NA	3,061.96
	1/7/2021	116.84	103.56	NA	NA	3,061.89
MW-26						
3,136.99	1/12/2017	NM	93.78	NA	NA	3,043.21
	4/7/2017	108.41	93.83	NA	NA	3,043.16
	7/13/2017	NM	93.75	NA	NA	3,043.24
	10/3/2017	NM	94.00	NA	NA	3,042.99
	1/12/2018	NM	93.76	NA	NA	3,043.23
	4/2/2018	NM	93.89	NA	NA	3,043.10
	07/02/18	NM	94.00	NA	NA	3,042.99
	10/1/2018	NM	93.91	NA	NA	3,043.08
	1/6/2019	NM	93.88	NA	NA	3,043.11
	4/9/2019	NM	93.74	NA	NA	3,043.25
	7/9/2019	108.37	93.76	NA	NA	3,043.23
	10/8/2019	NM	93.61	NA	NA	3,043.38
	1/15/2020	NM	93.84	NA	NA	3,043.15
	4/7/2020	108.41	93.71	NA	NA	3,043.28
	7/8/2020	108.40	93.66	NA	NA	3,043.33
	10/12/2020	108.29	93.74	NA	NA	3,043.25
	1/7/2021	108.29	93.74	NA	NA	3,043.25

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-27						
3,126.99	7/20/2016	NM	91.61	NA	NA	3,035.38
	1/11/2017	NM	91.40	NA	NA	3,035.59
	4/7/2017	108.40	91.65	NA	NA	3,035.34
	7/13/2017	NM	91.60	NA	NA	3,035.39
	10/3/2017	NM	91.80	NA	NA	3,035.19
	1/12/2018	NM	91.78	NA	NA	3,035.21
	4/2/2018	NM	92.08	NA	NA	3,034.91
	07/02/18	NM	91.98	NA	NA	3,035.01
	10/1/2018	NM	92.07	NA	NA	3,034.92
	1/8/2019	NM	91.86	NA	NA	3,035.13
	4/5/2019	NM	91.70	NA	NA	3,035.29
	7/9/2019	108.04	91.66	NA	NA	3,035.33
	10/8/2019	NM	91.50	NA	NA	3,035.49
	1/14/2020	NM	91.50	NA	NA	3,035.49
	4/7/2020	108.48	91.42	NA	NA	3,035.57
	7/8/2020	108.39	91.35	NA	NA	3,035.64
	10/12/2020	108.40	91.39	NA	NA	3,035.60
	1/7/2021	108.41	91.38	NA	NA	3,035.61
MW-28						
3,093.86	1/10/2017	NM	83.60	NA	NA	3,010.26
	4/7/2017	104.02	83.74	NA	NA	3,010.12
	7/13/2017	NM	83.78	NA	NA	3,010.08
	10/3/2017	NM	83.79	NA	NA	3,010.07
	1/12/2018	NM	83.84	NA	NA	3,010.02
	4/2/2018	NM	83.84	NA	NA	3,010.02
	07/02/18	NM	83.89	NA	NA	3,009.97
	10/1/2018	NM	83.62	NA	NA	3,010.24
	1/9/2019	NM	83.79	NA	NA	3,010.07
	4/9/2019	NM	83.89	NA	NA	3,009.97
	7/9/2019	103.95	83.93	NA	NA	3,009.93
	10/8/2019	NM	83.93	NA	NA	3,009.93
	1/15/2020	NM	83.94	NA	NA	3,009.92
	4/7/2020	104.04	83.89	NA	NA	3,009.97
	7/8/2020	104.04	83.95	NA	NA	3,009.91
	10/8/2020	104.02	83.94	NA	NA	3,009.92
	1/5/2021	104.04	83.95	NA	NA	3,009.91
	4/6/2021	104.04	83.83	NA	NA	3,010.03
MW-29						
3,098.60	1/10/2017	NM	99.85	NA	NA	2,998.75
	4/7/2017	113.55	99.97	NA	NA	2,998.63
	7/13/2017	NM	100.00	NA	NA	2,998.60
	10/3/2017	NM	99.95	NA	NA	2,998.65
	1/12/2018	NM	100.08	NA	NA	2,998.52
	4/2/2018	NM	100.17	NA	NA	2,998.43
	07/02/18	NM	100.16	NA	NA	2,998.44
	10/1/2018	NM	100.11	NA	NA	2,998.49
	1/7/2019	NM	100.04	NA	NA	2,998.56
	4/5/2019	NM	100.21	NA	NA	2,998.39
	7/9/2019	113.41	100.25	NA	NA	2,998.35
	10/8/2019	NM	100.22	NA	NA	2,998.38
	1/15/2020	NM	100.30	NA	NA	2,998.30
	4/7/2020	113.50	100.31	NA	NA	2,998.29
	7/8/2020	113.42	100.29	NA	NA	2,998.31
	10/8/2020	113.42	100.26	NA	NA	2,998.34
	1/5/2021	113.43	100.28	NA	NA	2,998.32
	4/6/2021	113.43	100.15	NA	NA	2,998.45

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-30						
3,170.95	7/13/2017	NM	103.41	NA	NA	3,067.54
	10/3/2017	NM	103.57	NA	NA	3,067.38
	1/12/2018	NM	103.19	NA	NA	3,067.76
	4/2/2018	NM	103.71	NA	NA	3,067.24
	07/02/18	NM	103.46	NA	NA	3,067.49
	10/1/2018	NM	103.58	NA	NA	3,067.37
	1/8/2019	NM	103.67	NA	NA	3,067.28
	4/10/2019	NM	103.52	NA	NA	3,067.43
	7/10/2019	123.89	103.66	NA	NA	3,067.29
	10/9/2019	NM	103.48	NA	NA	3,067.47
	1/16/2020	NM	103.92	NA	NA	3,067.03
	4/8/2020	123.89	103.67	NA	NA	3,067.28
	7/6/2020	123.89	103.73	NA	NA	3,067.22
	10/12/2020	123.91	103.78	NA	NA	3,067.17
	1/7/2021	123.92	103.83	NA	NA	3,067.12
MW-31						
3,145.41	7/13/2017	NM	94.50	NA	NA	3,050.91
	10/3/2017	NM	94.74	NA	NA	3,050.67
	1/12/2018	NM	94.60	NA	NA	3,050.81
	4/2/2018	NM	94.60	NA	NA	3,050.81
	07/02/18	NM	94.50	NA	NA	3,050.91
	10/1/2018	NM	94.62	NA	NA	3,050.79
	1/8/2019	NM	94.59	NA	NA	3,050.82
	4/5/2019	NM	94.42	NA	NA	3,050.99
	7/9/2019	102.57	94.46	NA	NA	3,050.95
	10/8/2019	NM	94.40	NA	NA	3,051.01
	1/16/2020	NM	94.60	NA	NA	3,050.81
	4/7/2020	102.77	94.44	NA	NA	3,050.97
	7/8/2020	102.74	94.48	NA	NA	3,050.93
	10/12/2020	102.79	94.63	NA	NA	3,050.78
	1/7/2021	102.75	94.63	NA	NA	3,050.78
MW-32						
3,090.28	4/10/2019	94.04	81.18	NA	NA	3,009.10
	7/9/2019	93.44	81.39	NA	NA	3,008.89
	10/8/2019	NM	81.42	NA	NA	3,008.86
	1/15/2020	NM	81.45	NA	NA	3,008.83
	4/8/2020	93.40	81.35	NA	NA	3,008.93
	7/8/2020	93.47	81.41	NA	NA	3,008.87
	10/8/2020	93.41	81.46	NA	NA	3,008.82
	1/4/2021	94.45	81.47	NA	NA	3,008.81
	4/6/2021	94.45	81.31	NA	NA	3,008.97
MW-33						
3,080.02	4/10/2019	92.98	76.84	NA	NA	3,003.18
	7/9/2019	92.97	77.00	NA	NA	3,003.02
	10/8/2019	NM	77.09	NA	NA	3,002.93
	1/15/2020	NM	77.09	NA	NA	3,002.93
	4/8/2020	92.58	76.98	NA	NA	3,003.04
	7/8/2020	92.72	76.99	NA	NA	3,003.03
	10/8/2020	92.81	77.07	NA	NA	3,002.95
	1/4/2021	92.67	77.09	NA	NA	3,002.93
	4/6/2021	92.67	76.93	NA	NA	3,003.09
MW-34						
3,069.95	4/10/2019	78.04	71.21	NA	NA	2,998.74
	7/9/2019	78.03	71.42	NA	NA	2,998.53
	10/8/2019	NM	71.45	NA	NA	2,998.50
	1/15/2020	NM	71.41	NA	NA	2,998.54
	4/8/2020	78.02	71.45	NA	NA	2,998.50
	7/8/2020	78.07	71.49	NA	NA	2,998.46
	10/8/2020	78.05	71.53	NA	NA	2,998.42
	1/4/2021	78.06	71.63	NA	NA	2,998.32
	4/6/2021	78.06	71.42	NA	NA	2,998.53

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-1						
3,124.90	12/2/2015	NM	72.01	NA	NA	3,052.89
	1/25/2016	106.86	72.01	NA	NA	3,052.89
	7/22/2016	NM	71.90	NA	NA	3,053.00
	1/12/2017	NM	71.73	NA	NA	3,053.17
	4/7/2017	106.36	71.78	NA	NA	3,053.12
	7/13/2017	NM	71.67	NA	NA	3,053.23
	10/3/2017	NM	71.65	NA	NA	3,053.25
	1/12/2018	NM	71.63	NA	NA	3,053.27
	4/2/2018	NM	71.66	NA	NA	3,053.24
	07/02/18	NM	70.65	NA	NA	3,054.25
	10/1/2018	NM	71.71	NA	NA	3,053.19
	1/7/2019	NM	71.63	NA	NA	3,053.27
	4/4/2019	NM	71.61	NA	NA	3,053.29
	7/8/2019	105.91	71.58	NA	NA	3,053.32
	10/7/2019	NM	71.76	NA	NA	3,053.14
	1/13/2020	NM	71.66	NA	NA	3,053.24
	4/6/2020	105.95	71.67	NA	NA	3,053.23
	7/9/2020	105.84	71.70	NA	NA	3,053.20
	10/7/2020	105.94	71.84	NA	NA	3,053.06
	1/5/2021	105.94	71.88	NA	NA	3,053.02
	4/6/2021	105.94	71.82	NA	NA	3,053.08
NM-MW-2						
3,152.86	12/2/2015	NM	96.14	NA	NA	3,056.72
	1/25/2016	120.55	96.38	NA	NA	3,056.48
	7/22/2016	NM	96.28	NA	NA	3,056.58
	1/12/2017	NM	96.20	NA	NA	3,056.66
	4/7/2017	120.60	96.49	NA	NA	3,056.37
	7/13/2017	NM	96.25	NA	NA	3,056.61
	10/3/2017	NM	96.17	NA	NA	3,056.69
	1/12/2018	NM	96.29	NA	NA	3,056.57
	4/2/2018	NM	96.18	NA	NA	3,056.68
	07/02/18	NM	96.42	NA	NA	3,056.44
	10/1/2018	NM	96.28	NA	NA	3,056.58
	1/7/2019	NM	96.14	NA	NA	3,056.72
	4/4/2019	NM	96.20	NA	NA	3,056.66
	7/8/2019	120.53	96.02	NA	NA	3,056.84
	10/7/2019	NM	96.30	NA	NA	3,056.56
	1/13/2020	NM	96.00	NA	NA	3,056.86
	4/6/2020	120.68	95.98	NA	NA	3,056.88
	7/9/2020	120.54	95.90	NA	NA	3,056.96
	10/7/2020	120.60	95.94	NA	NA	3,056.92
	1/5/2021	120.60	95.85	NA	NA	3,057.01
	4/6/2021	120.60	95.66	NA	NA	3,057.20
NM-MW-3						
3,146.86	12/2/2015	NM	91.70	NA	NA	3,055.16
	1/25/2016	105.01	91.80	NA	NA	3,055.06
	7/22/2016	NM	91.81	NA	NA	3,055.05
	1/12/2017	NM	91.75	NA	NA	3,055.11
	4/7/2017	105.28	91.99	NA	NA	3,054.87
	7/13/2017	NM	91.92	NA	NA	3,054.94
	10/3/2017	NM	91.90	NA	NA	3,054.96
	1/12/2018	NM	91.93	NA	NA	3,054.93
	4/2/2018	NM	91.82	NA	NA	3,055.04
	07/02/18	NM	91.88	NA	NA	3,054.98
	10/1/2018	NM	91.78	NA	NA	3,055.08
	1/7/2019	NM	81.68	NA	NA	3,065.18
	4/4/2019	NM	91.70	NA	NA	3,055.16
	7/8/2019	105.31	91.55	NA	NA	3,055.31
	10/7/2019	NM	91.72	NA	NA	3,055.14
	1/13/2020	NM	91.50	NA	NA	3,055.36
	4/6/2020	105.28	91.47	NA	NA	3,055.39
	7/9/2020	105.27	91.40	NA	NA	3,055.46
	10/7/2020	105.40	91.43	NA	NA	3,055.43
	1/5/2021	105.40	91.36	NA	NA	3,055.50
	4/6/2021	105.40	91.22	NA	NA	3,055.64

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TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-4						
3,154.21	12/2/2015	NM	110.59	NA	NA	3,043.62
	1/25/2016	116.91	110.46	NA	NA	3,043.75
	7/22/2016	NM	110.57	NA	NA	3,043.64
	1/12/2017	NM	110.40	NA	NA	3,043.81
	4/7/2017	117.19	110.52	NA	NA	3,043.69
	7/13/2017	NM	110.50	NA	NA	3,043.71
	10/3/2017	NM	110.52	NA	NA	3,043.69
	1/12/2018	NM	110.48	NA	NA	3,043.73
	4/2/2018	NM	110.55	NA	NA	3,043.66
	07/02/18	NM	110.38	NA	NA	3,043.83
	10/1/2018	NM	110.44	NA	NA	3,043.77
	1/7/2019	NM	110.34	NA	NA	3,043.87
	4/4/2019	NM	110.36	NA	NA	3,043.85
	7/8/2019	117.12	110.27	NA	NA	3,043.94
	10/7/2019	NM	110.35	NA	NA	3,043.86
	1/13/2020	NM	110.23	NA	NA	3,043.98
	4/6/2020	117.11	110.24	NA	NA	3,043.97
	7/9/2020	117.16	110.13	NA	NA	3,044.08
	10/7/2020	117.16	110.09	NA	NA	3,044.12
	1/5/2021	117.16	110.01	NA	NA	3,044.20
	4/6/2021	117.16	110.05	NA	NA	3,044.16
NM-MW-5						
3,109.14	12/2/2015	NM	DRY	NA	NA	DRY
	1/25/2016	115.00	99.95	NA	NA	3,009.19
	7/22/2016	NM	99.78	NA	NA	3,009.36
	1/12/2017	NM	99.70	NA	NA	3,009.44
	4/7/2017	114.92	99.66	NA	NA	3,009.48
	7/13/2017	NM	99.80	NA	NA	3,009.34
	10/32017	NM	99.69	NA	NA	3,009.45
	1/12/2018	NM	99.80	NA	NA	3,009.34
	4/2/2018	NM	99.76	NA	NA	3,009.38
	07/02/18	NM	99.82	NA	NA	3,009.32
	10/1/2018	NM	99.89	NA	NA	3,009.25
	1/7/2019	NM	99.61	NA	NA	3,009.53
	4/4/2019	NM	99.74	NA	NA	3,009.40
	7/8/2019	114.43	99.94	NA	NA	3,009.20
	10/7/2019	NM	99.78	NA	NA	3,009.36
	1/13/2020	NM	99.88	NA	NA	3,009.26
	4/6/2020	114.41	99.79	NA	NA	3,009.35
	7/9/2020	114.37	100.01	NA	NA	3,009.13
	10/7/2020	114.59	100.10	NA	NA	3,009.04
	1/5/2021	114.55	100.12	NA	NA	3,009.02
	4/6/2021	114.55	100.03	NA	NA	3,009.11
NM-MW-6						
3,093.23	12/2/2015	NM	86.98	NA	NA	3,006.25
	1/25/2016	123.21	86.93	NA	NA	3,006.30
	7/22/2016	NM	87.10	NA	NA	3,006.13
	1/12/2017	NM	87.35	NA	NA	3,005.88
	4/7/2017	123.16	87.42	NA	NA	3,005.81
	7/13/2017	NM	87.47	NA	NA	3,005.76
	10/3/2017	NM	87.47	NA	NA	3,005.76
	1/12/2018	NM	87.57	NA	NA	3,005.66
	4/2/2018	NM	87.53	NA	NA	3,005.70
	07/02/18	NM	87.66	NA	NA	3,005.57
	10/1/2018	NM	87.70	NA	NA	3,005.53
	1/7/2019	NM	87.64	NA	NA	3,005.59
	4/4/2019	NM	87.81	NA	NA	3,005.42
	7/8/2019	121.02	87.77	NA	NA	3,005.46
	10/7/2019	NM	87.89	NA	NA	3,005.34
	1/13/2020	NM	87.83	NA	NA	3,005.40
	4/6/2020	121.07	87.82	NA	NA	3,005.41
	7/9/2020	121.09	87.84	NA	NA	3,005.39
	10/7/2020	121.80	87.92	NA	NA	3,005.31
	1/5/2021	121.80	87.93	NA	NA	3,005.30
	4/6/2021	121.80	87.74	NA	NA	3,005.49

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TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-7						
3,147.67	12/2/2015	NM	96.71	NA	NA	3,050.96
	1/25/2016	105.52	96.79	NA	NA	3,050.88
	7/22/2016	NM	96.91	NA	NA	3,050.76
	1/12/2017	NM	96.80	NA	NA	3,050.87
	4/7/2017	105.89	97.20	NA	NA	3,050.47
	7/13/2017	NM	97.12	NA	NA	3,050.55
	10/3/2017	NM	96.73	NA	NA	3,050.94
	1/12/2018	NM	96.40	NA	NA	3,051.27
	4/2/2018	NM	96.26	NA	NA	3,051.41
	07/02/18	NM	96.13	NA	NA	3,051.54
	10/1/2018	NM	96.07	NA	NA	3,051.60
	1/7/2019	NM	95.88	NA	NA	3,051.79
	4/4/2019	NM	95.91	NA	NA	3,051.76
	7/8/2019	105.92	95.75	NA	NA	3,051.92
	10/7/2019	NM	95.88	NA	NA	3,051.79
	1/13/2020	NM	95.65	NA	NA	3,052.02
	4/6/2020	106.47	95.63	NA	NA	3,052.04
	7/9/2020	105.56	95.52	NA	NA	3,052.15
	10/7/2020	105.84	95.53	NA	NA	3,052.14
	1/5/2021	105.84	95.44	NA	NA	3,052.23
	4/6/2021	105.84	95.40	NA	NA	3,052.27
NM-MW-8						
3,138.62	4/7/2017	108.33	98.63	NA	NA	3,039.99
	7/13/2017	NM	98.49	NA	NA	3,040.13
	10/3/2017	NM	98.42	NA	NA	3,040.20
	1/12/2018	NM	98.34	NA	NA	3,040.28
	4/2/2018	NM	98.35	NA	NA	3,040.27
	07/02/18	NM	98.22	NA	NA	3,040.40
	10/1/2018	NM	98.16	NA	NA	3,040.46
	1/7/2019	NM	98.03	NA	NA	3,040.59
	4/4/2019	NM	98.01	NA	NA	3,040.61
	7/8/2019	108.33	97.83	NA	NA	3,040.79
	10/7/2019	NM	97.89	NA	NA	3,040.73
	1/13/2020	NM	97.74	NA	NA	3,040.88
	4/6/2020	108.39	97.72	NA	NA	3,040.90
	7/9/2020	108.36	97.54	NA	NA	3,041.08
	10/7/2020	108.28	97.49	NA	NA	3,041.13
	1/5/2021	108.28	97.49	NA	NA	3,041.13
	4/6/2021	108.28	97.30	NA	NA	3,041.32
NM-MW-9						
3,118.18	4/7/2017	96.79	96.73	NA	NA	3,021.45
	7/13/2017	NM	95.58	NA	NA	3,022.60
	10/3/2017	NM	95.37	NA	NA	3,022.81
	1/12/2018	NM	94.94	NA	NA	3,023.24
	4/2/2018	NM	94.71	NA	NA	3,023.47
	07/02/18	NM	94.60	NA	NA	3,023.58
	10/1/2018	NM	94.60	NA	NA	3,023.58
	1/7/2019	NM	94.39	NA	NA	3,023.79
	4/5/2019	NM	97.37	NA	NA	3,020.81
	7/8/2019	96.77	94.21	NA	NA	3,023.97
	10/7/2019	NM	94.17	NA	NA	3,024.01
	1/13/2020	96.79	94.08	NA	NA	3,024.10
	4/6/2020	96.78	93.92	NA	NA	3,024.26
	7/7/2020	56.77	93.83	NA	NA	3,024.35
	10/8/2020	96.78	93.80	NA	NA	3,024.38
	1/5/2021	96.80	93.72	NA	NA	3,024.46
	4/6/2021	96.80	93.56	NA	NA	3,024.62

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TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-10						
3,066.32	1/10/2017	NM	78.94	NA	NA	2,987.38
	4/7/2017	108.10	79.02	NA	NA	2,987.30
	7/13/2017	NM	79.09	NA	NA	2,987.23
	10/3/2017	NM	79.12	NA	NA	2,987.20
	1/12/2018	NM	79.15	NA	NA	2,987.17
	4/2/2018	NM	79.23	NA	NA	2,987.09
	07/02/18	NM	79.24	NA	NA	2,987.08
	10/1/2018	NM	79.32	NA	NA	2,987.00
	1/7/2019	NM	79.27	NA	NA	2,987.05
	4/4/2019	NM	79.37	NA	NA	2,986.95
	7/8/2019	108.43	79.42	NA	NA	2,986.90
	10/7/2019	NM	79.48	NA	NA	2,986.84
	1/13/2020	NM	79.53	NA	NA	2,986.79
	4/6/2020	108.41	79.55	NA	NA	2,986.77
	7/7/2020	108.40	79.61	NA	NA	2,986.71
	10/8/2020	108.41	79.61	NA	NA	2,986.71
	1/5/2021	108.41	79.66	NA	NA	2,986.66
	4/6/2021	108.41	79.69	NA	NA	2,986.63
NM-MW-11						
3,075.44	1/10/2017	NM	150.11	NA	NA	2,925.33
	4/7/2017	163.56	127.16	NA	NA	2,948.28
	7/13/2017	NM	107.66	NA	NA	2,967.78
	10/3/2017	NM	97.78	NA	NA	2,977.66
	1/12/2018	NM	90.89	NA	NA	2,984.55
	4/2/2018	NM	87.75	NA	NA	2,987.69
	07/02/18	NM	86.07	NA	NA	2,989.37
	10/1/2018	NM	84.80	NA	NA	2,990.64
	1/7/2019	NM	83.28	NA	NA	2,992.16
	4/4/2019	NM	82.82	NA	NA	2,992.62
	7/8/2019	163.02	82.94	NA	NA	2,992.50
	10/8/2019	NM	82.97	NA	NA	2,992.47
	1/13/2020	NM	82.58	NA	NA	2,992.86
	4/6/2020	166.05	82.29	NA	NA	2,993.15
	7/7/2020	163.00	82.54	NA	NA	2,992.90
	10/8/2020	163.00	82.85	NA	NA	2,992.59
	1/4/2021	163.00	82.71	NA	NA	2,992.73
	4/6/2021	163.00	82.64	NA	NA	2,992.80
NM-MW-12						
3,105.47	4/7/2017	98.54	96.70	NA	NA	3,008.77
	7/13/2017	NM	96.72	NA	NA	3,008.75
	10/3/2017	NM	96.69	NA	NA	3,008.78
	1/12/2018	NM	96.67	NA	NA	3,008.80
	4/2/2018	NM	96.71	NA	NA	3,008.76
	07/02/18	NM	96.68	NA	NA	3,008.79
	10/1/2018	NM	96.67	NA	NA	3,008.80
	1/7/2019	NM	96.51	NA	NA	3,008.96
	4/4/2019	NM	96.60	NA	NA	3,008.87
	7/8/2019	98.52	96.61	NA	NA	3,008.86
	10/7/2019	NM	96.64	NA	NA	3,008.83
	1/13/2020	98.55	97.63	NA	NA	3,007.84
	4/6/2020	98.78	96.57	NA	NA	3,008.90
	7/10/2020	98.35	96.64	NA	NA	3,008.83
	10/8/2020	98.52	96.61	NA	NA	3,008.86
	1/5/2021	98.56	96.58	NA	NA	3,008.89
	4/6/2021	98.56	96.52	NA	NA	3,008.95
NM-MW-13						
3,051.17	4/7/2017	111.80	84.04	NA	NA	2,967.13
	7/13/2017	NM	84.05	NA	NA	2,967.12
	10/3/2017	NM	84.10	NA	NA	2,967.07
	1/12/2018	NM	84.12	NA	NA	2,967.05
	4/2/2018	NM	84.15	NA	NA	2,967.02
	07/02/18	NM	84.15	NA	NA	2,967.02
	10/1/2018	NM	84.24	NA	NA	2,966.93
	1/7/2019	NM	84.15	NA	NA	2,967.02
	4/4/2019	NM	84.27	NA	NA	2,966.90
	7/8/2019	111.74	84.29	NA	NA	2,966.88
	10/8/2019	NM	84.37	NA	NA	2,966.80
	1/13/2020	NM	84.40	NA	NA	2,966.77
	4/6/2020	111.70	84.39	NA	NA	2,966.78
	7/7/2020	111.64	84.44	NA	NA	2,966.73
	10/8/2020	111.73	84.49	NA	NA	2,966.68
	1/4/2021	111.73	84.53	NA	NA	2,966.64
	4/6/2021	111.73	84.53	NA	NA	2,966.64

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TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-14						
3,126.82	2/17/2020	97.74	95.82	NA	NA	3,031.00
	4/6/2020	97.67	95.81	NA	NA	3,031.01
	7/9/2020	97.66	95.82	NA	NA	3,031.00
	10/8/2020	97.75	95.85	NA	NA	3,030.97
	1/5/2021	97.68	95.79	NA	NA	3,031.03
	4/6/2021	97.68	95.76	NA	NA	3,031.06
NM-MW-15						
3,064.93	2/17/2020	98.06	86.55	NA	NA	2,978.38
	4/6/2020	98.08	86.60	NA	NA	2,978.33
	7/7/2020	98.07	86.66	NA	NA	2,978.27
	10/8/2020	97.99	87.71	NA	NA	2,977.22
	1/4/2021	98.20	86.76	NA	NA	2,978.17
	4/6/2021	98.20	86.76	NA	NA	2,978.17
NM-MW-16						
3,085.99	2/17/2020	93.04	DRY	NA	NA	NA
	4/6/2020	93.04	DRY	NA	NA	NA
	7/7/2020	93.05	DRY	NA	NA	NA
	10/8/2020	93.10	93.06	NA	NA	2,992.93
	1/4/2021	93.11	DRY	NA	NA	NA
	4/6/2021	93.02	DRY	NA	NA	NA
NM-MW-17						
3,035.70	2/17/2020	86.71	58.34	NA	NA	2,977.36
	4/6/2020	86.70	58.36	NA	NA	2,977.34
	7/7/2020	86.74	58.43	NA	NA	2,977.27
	10/8/2020	86.73	58.52	NA	NA	2,977.18
	1/4/2021	86.73	58.55	NA	NA	2,977.15
	4/6/2021	86.73	58.54	NA	NA	2,977.16
NM-MW-20						
3,091.29	2/17/2020	97.76	93.23	NA	NA	2,998.06
	4/6/2020	97.81	93.29	NA	NA	2,998.00
	7/10/2020	97.76	93.37	NA	NA	2,997.92
	10/8/2020	97.77	93.39	NA	NA	2,997.90
	1/4/2021	97.77	93.45	NA	NA	2,997.84
	4/6/2021	97.77	93.37	NA	NA	2,997.92
NM-MW-21						
3,047.98	2/17/2020	78.48	76.46	NA	NA	2,971.52
	4/6/2020	78.48	76.50	NA	NA	2,971.48
	7/10/2020	78.48	76.53	NA	NA	2,971.45
	10/8/2020	78.49	76.57	NA	NA	2,971.41
	1/4/2021	78.55	76.61	NA	NA	2,971.37
	4/6/2021	78.55	76.64	NA	NA	2,971.34
Non-Remedial Wells						
Livermore						
NM	12/07/06	111.60	95.96	NA	NA	NA
	02/13/07	110.72	95.08	NA	NA	NA
	02/28/07	NM	95.08	NA	NA	NA
	07/30/07	110.72	95.71	NA	NA	NA
	07/09/08	110.72	94.89	NA	NA	NA
	01/28/09	110.81	94.81	NA	NA	NA
	08/28/09	111.11	95.08	NA	NA	NA
	02/19/10	NM	94.70	NA	NA	NA
	08/16/10	NM	94.67	NA	NA	NA
	02/11/11	NM	95.00	NA	NA	NA
	07/31/13	104.21	95.29	NA	NA	NA
	07/16/14	NM	95.85	NA	NA	NA
	01/25/16	104.23	95.20	NA	NA	NA
	07/21/16	NM	95.30	NA	NA	NA
	01/11/17	NM	95.10	NA	NA	NA
	07/13/17	NM	95.17	NA	NA	NA
	10/03/17	NM	95.27	NA	NA	NA
	01/12/18	NM	94.97	NA	NA	NA
	04/02/18	NM	94.97	NA	NA	NA
	07/02/18	NM	95.19	NA	NA	NA
	10/1/2018	NM	95.26	NA	NA	NA
	1/8/2019	NM	95.27	NA	NA	NA
	4/10/2019	NM	95.27	NA	NA	NA
	7/10/2019	NM	95.40	NA	NA	NA
	10/9/2019	NM	95.28	NA	NA	NA
	1/16/2020	NM	95.62	NA	NA	NA
	4/8/2020	99.81	95.42	NA	NA	NA
	7/6/2020	99.87	95.48	NA	NA	NA
	10/12/2020	99.77	95.52	NA	NA	NA
	1/7/2021	99.74	95.63	NA	NA	NA

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
Pure Water Well						
3,151.80	08/16/12	104.80	88.00	NA	NA	3,063.80
	08/30/13	100.50	88.35	NA	NA	3,063.45
	07/14/15	NM	88.35	NA	NA	3,063.45
RRR Ranch Windmill						
NM	08/28/09	117.05	95.05	NA	NA	NA
	07/22/16	NM	94.36	NA	NA	NA
	01/12/17	NM	94.28	NA	NA	NA
	07/13/17	99.61	94.37	NA	NA	NA
	10/03/17	NM	94.34	NA	NA	NA
	01/12/18	NM	94.24	NA	NA	NA
	04/02/18	NM	94.24	NA	NA	NA
	07/02/18	NM	94.14	NA	NA	NA
	10/1/2018	NM	94.08	NA	NA	NA
	1/7/2019	NM	93.95	NA	NA	NA
	4/4/2019	NM	93.95	NA	NA	NA
	7/8/2019	96.44	93.82	NA	NA	NA
	10/7/2019	NM	93.91	NA	NA	NA
	1/13/2020	NM	93.72	NA	NA	NA
	4/6/2020	96.60	93.69	NA	NA	NA
	7/9/2020	96.48	93.57	NA	NA	NA
	10/7/2020	96.33	93.55	NA	NA	NA
	1/5/2021	96.33	93.46	NA	NA	NA
	4/6/2021	96.33	93.42	NA	NA	NA
TRAC-4						
NM	NA	NM	NM	NA	NA	NA
TRAC-8						
NM	NA	NM	NM	NA	NA	NA
Wilson Ranch Well						
NM	NA	NM	NM	NA	NA	NA

Notes:
[1] Formula for Adjusted Groundwater Elevation: TOC - Depth to Water + 0.75 (LNAPL thickness).
ft = feet
NAVD = North American Vertical Datum
TOC = top of casing
LNAPL = light non-aqueous phase liquid
NM = Not Measured
NA = Not Applicable

Appendix B

Groundwater Sample Analytical Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-1118-1
Client Project/Site: Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Christopher Knight

Authorized for release by:
4/19/2021 5:52:56 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Dollarhide

Laboratory Job ID: 880-1118-1

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-1118-1
Project/Site: Dollarhide

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

Job ID: 880-1118-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1118-1

Receipt
The samples were received on 4/7/2021 3:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

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

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-1118-1
Project/Site: Dollarhide

Client Sample ID: NM-MW-15-W-210704 Lab Sample ID: 880-1118-1
Date Collected: 04/07/21 10:50 **Matrix: Water**
Date Received: 04/07/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.1		2.50	0.105	mg/L			04/18/21 18:14	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	519		50.0	50.0	mg/L			04/12/21 08:50	1

Client Sample ID: NM-MW-17-W-210704 Lab Sample ID: 880-1118-2
Date Collected: 04/07/21 11:10 **Matrix: Water**
Date Received: 04/07/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		2.50	0.105	mg/L			04/18/21 18:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1010		50.0	50.0	mg/L			04/12/21 08:50	1

Client Sample ID: NM-MW-20-W-210704 Lab Sample ID: 880-1118-3
Date Collected: 04/07/21 11:50 **Matrix: Water**
Date Received: 04/07/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		0.500	0.0210	mg/L			04/18/21 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	377		50.0	50.0	mg/L			04/12/21 08:50	1

Client Sample ID: NM-MW-21-W-210704 Lab Sample ID: 880-1118-4
Date Collected: 04/07/21 12:15 **Matrix: Water**
Date Received: 04/07/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		2.50	0.105	mg/L			04/18/21 18:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	529		50.0	50.0	mg/L			04/12/21 08:50	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1981/38
Matrix: Water
Analysis Batch: 1981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			04/18/21 17:44	1

Lab Sample ID: LCS 880-1981/39
Matrix: Water
Analysis Batch: 1981

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.71		mg/L		103	90 - 110		

Lab Sample ID: LCSD 880-1981/40
Matrix: Water
Analysis Batch: 1981

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			25.0	25.75		mg/L		103	90 - 110	0	20

Lab Sample ID: 880-1183-A-1 MS
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	170		125	282.3	N1	mg/L		89	90 - 110		

Lab Sample ID: 880-1183-A-1 MSD
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	170		125	280.6	N1	mg/L		88	90 - 110	1	20

Lab Sample ID: 880-1204-A-1 MS
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	11.7		25.0	37.31		mg/L		102	90 - 110		

Lab Sample ID: 880-1204-A-1 MSD
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11.7		25.0	37.01		mg/L		101	90 - 110	1	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 830-169/1
Matrix: Water
Analysis Batch: 169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			04/12/21 08:50	1

Lab Sample ID: LCS 830-169/2
Matrix: Water
Analysis Batch: 169

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1009		mg/L		101	90 - 110		

Lab Sample ID: LCSD 830-169/3
Matrix: Water
Analysis Batch: 169

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	981.0		mg/L		98	90 - 110	3	10

Lab Sample ID: 830-259-C-1 DU
Matrix: Water
Analysis Batch: 169

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2140			2122		mg/L				0.8	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

HPLC/IC

Analysis Batch: 1981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1118-1	NM-MW-15-W-210704	Total/NA	Water	300.0	
880-1118-2	NM-MW-17-W-210704	Total/NA	Water	300.0	
880-1118-3	NM-MW-20-W-210704	Total/NA	Water	300.0	
880-1118-4	NM-MW-21-W-210704	Total/NA	Water	300.0	
MB 880-1981/38	Method Blank	Total/NA	Water	300.0	
LCS 880-1981/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-1981/40	Lab Control Sample Dup	Total/NA	Water	300.0	
880-1183-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-1183-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
880-1204-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-1204-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1118-1	NM-MW-15-W-210704	Total/NA	Water	SM 2540C	
880-1118-2	NM-MW-17-W-210704	Total/NA	Water	SM 2540C	
880-1118-3	NM-MW-20-W-210704	Total/NA	Water	SM 2540C	
880-1118-4	NM-MW-21-W-210704	Total/NA	Water	SM 2540C	
MB 830-169/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 830-169/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 830-169/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
830-259-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

Client Sample ID: NM-MW-15-W-210704 — Lab Sample ID: 880-1118-1

Date Collected: 04/07/21 10:50 — **Matrix: Water**
Date Received: 04/07/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/18/21 18:14	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Client Sample ID: NM-MW-17-W-210704 — Lab Sample ID: 880-1118-2

Date Collected: 04/07/21 11:10 — **Matrix: Water**
Date Received: 04/07/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/18/21 18:20	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Client Sample ID: NM-MW-20-W-210704 — Lab Sample ID: 880-1118-3

Date Collected: 04/07/21 11:50 — **Matrix: Water**
Date Received: 04/07/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1981	04/18/21 18:25	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Client Sample ID: NM-MW-21-W-210704 — Lab Sample ID: 880-1118-4

Date Collected: 04/07/21 12:15 — **Matrix: Water**
Date Received: 04/07/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/18/21 18:30	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Laboratory References:

XEP = Eurofins Xenco, El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-1118-1
Project/Site: Dollarhide

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

Laboratory: Eurofins Xenco, El Paso

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704221-20-18	04-30-21

Method Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XM
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEP

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

XEP = Eurofins Xenco, El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443
XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1118-1	NM-MW-15-W-210704	Water	04/07/21 10:50	04/07/21 15:58	
880-1118-2	NM-MW-17-W-210704	Water	04/07/21 11:10	04/07/21 15:58	
880-1118-3	NM-MW-20-W-210704	Water	04/07/21 11:50	04/07/21 15:58	
880-1118-4	NM-MW-21-W-210704	Water	04/07/21 12:15	04/07/21 15:58	

XENCO LABORATORIES

Chain of

Houston TX (281) 240-4200 Dallas TX (214) 902-
Midland TX (432-704-5440) EL Paso,TX (915)58
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlan

880-1118 Chain of Custody

Wor

880-1118

WW

4/19/2021

Project Manager	Nick Casten	Bill to (if different)	Gina Blair- Apr
Company Name:	GHD	Company Name	GHD Services Inc.- 340
Address	2135 S Loop 250 West	Address	2055 Niagara Falls Blvd
City, State ZIP	Midland, TX 79703	City, State ZIP	Niagara Falls, NY 14304
Phone	225-292-9007 Email		Nick Casten@ghd com & Christopher Knight@ghd com & Brittany White@ghd com & edds@ghd com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Dollarhide	Turn Around	
Project Number	55270	Routine	☑
P O. Number		Rush	
Sampler's Name.	Charles Nelly Joe Mireles	Due Date	

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C)	3.5/4.0	Thermometer ID		
Received Intact:	(Yes) No		R8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		0.5
Sample Custody Seals.	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
NM-MW-15-W-210704	GW	4-7	1050	—	1	X	X
NM-MW-17-W-210704	GW	4-7	1110	—	1	X	X
NM-MW-20-W-210704	GW	4-7	1150	—	1	X	X
NM-MW-21-W-210704	GW	4-7	1245	—	1	X	X

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

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

Relinquished by (Signature)	Received by: (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Joe Mireles		4/7/21 1558	2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 880-797.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 880-1118-1
Address: 200 East Sunset Rd., Suite E,	Due Date Requested: 4/13/2021			
City: El Paso	TAT Requested (days):			
State, Zip: TX, 79922				
Phone: 915-585-3443(Tel)	PO #:			
Email:	WO #:			
Project Name: Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
NM-MW-15-W-210704 (880-1118-1)	4/7/21	10:50 Mountain		Water			X	1	
NM-MW-17-W-210704 (880-1118-2)	4/7/21	11:10 Mountain		Water			X	1	
NM-MW-20-W-210704 (880-1118-3)	4/7/21	11:50 Mountain		Water			X	1	
NM-MW-21-W-210704 (880-1118-4)	4/7/21	12:15 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	4/8/21 1700		[signature]	4-9-21 10:30	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 880-1118-1

Login Number: 1118 **List Source: Eurofins Midland**
List Number: 1
Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 880-1118-1

Login Number: 1118
List Number: 2
Creator: Aparicio, Niria

List Source: Eurofins El Paso
List Creation: 04/09/21 12:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-1119-1
Client Project/Site: Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
4/19/2021 8:19:26 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Dollarhide

Laboratory Job ID: 880-1119-1

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-1119-1
Project/Site: Dollarhide

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Job ID: 880-1119-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1119-1

Receipt
The sample was received on 4/7/2021 3:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

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

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Client Sample ID: NM-MW-14-W-210704

Lab Sample ID: 880-1119-1

Date Collected: 04/07/21 10:10
Matrix: Water
Date Received: 04/07/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.4		0.500	0.0210	mg/L			04/18/21 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	466		50.0	50.0	mg/L			04/12/21 08:50	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1981/38
Matrix: Water
Analysis Batch: 1981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			04/18/21 17:44	1

Lab Sample ID: LCS 880-1981/39
Matrix: Water
Analysis Batch: 1981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.71		mg/L		103	90 - 110

Lab Sample ID: LCSD 880-1981/40
Matrix: Water
Analysis Batch: 1981

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	25.75		mg/L		103	90 - 110	0	20

Lab Sample ID: 880-1204-A-1 MS
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11.7		25.0	37.31		mg/L		102	90 - 110

Lab Sample ID: 880-1204-A-1 MSD
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11.7		25.0	37.01		mg/L		101	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 830-169/1
Matrix: Water
Analysis Batch: 169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			04/12/21 08:50	1

Lab Sample ID: LCS 830-169/2
Matrix: Water
Analysis Batch: 169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1009		mg/L		101	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 830-169/3
Matrix: Water
Analysis Batch: 169

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	981.0		mg/L		98	90 - 110	3	10

Lab Sample ID: 830-259-C-1 DU
Matrix: Water
Analysis Batch: 169

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2140			2122		mg/L				0.8	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

HPLC/IC

Analysis Batch: 1981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1119-1	NM-MW-14-W-210704	Total/NA	Water	300.0	
MB 880-1981/38	Method Blank	Total/NA	Water	300.0	
LCS 880-1981/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-1981/40	Lab Control Sample Dup	Total/NA	Water	300.0	
880-1204-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-1204-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1119-1	NM-MW-14-W-210704	Total/NA	Water	SM 2540C	
MB 830-169/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 830-169/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 830-169/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
830-259-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Client Sample ID: NM-MW-14-W-210704

Date Collected: 04/07/21 10:10
Date Received: 04/07/21 15:58

Lab Sample ID: 880-1119-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1981	04/18/21 18:45	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Laboratory References:

XEP = Eurofins Xenco, El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-1119-1
Project/Site: Dollarhide

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

Laboratory: Eurofins Xenco, El Paso

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704221-20-18	04-30-21

Method Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XM
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEP

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

XEP = Eurofins Xenco, El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443
XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1119-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1119-1	NM-MW-14-W-210704	Water	04/07/21 10:10	04/07/21 15:58	

XENCO LABORATORIES

Houston TX (281) 240-4200 D
Midland,TX (432-704-5440) E
Hobbs,NM (575-392-7550) Phoenix,AZ (48

880-1119 Login
PM Summons Debbie
Company GHD Services Inc

880-1119

820-2000)

Project Manager	Nick Casten	Bill to (if different)	Gina Blair- Apinvoices-340@ghd com
Company Name	GHD	Company Name	GHD Services Inc.- 340
Address	2135 S Loop 250 West	Address	2055 Niagara Falls Blvd
City, State ZIP	Midland, TX 79703	City, State ZIP	Niagara Falls NY 14304
Phone	225-292-9007 Email		Nick Casten@ghd com & Christopher Knight@ghd com & Brittany White@ghd com & edds@ghd com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Dollarhide	Turn Around	
Project Number	55270	Routine	☒
P O Number		Rush	
Sampler's Name	Charles Nethigh Joe Mireles	Due Date	

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	3.5/4.0	Thermometer ID	R8
Received Intact.	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals	Yes No (N/A)	Total Containers	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
NM-MW-14-W-210704	GW	4-7	1010	—	1	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Joe Mireles		4/7/21 1558	2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

4/19/2021

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 880-797.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 880-1119-1
Address: 200 East Sunset Rd., Suite E,	Due Date Requested: 4/13/2021			
City: El Paso	TAT Requested (days):			
State, Zip: TX, 79922				
Phone: 915-585-3443(Tel)	PO #:			
Email:	WO #:			
Project Name: Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2640C_Calcd	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
NM-MW-14-W-210704 (880-1119-1)	4/7/21	10:10 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 4/8/21 1700	Company	Received by: [signature]	Date/Time: 4-9-21 10:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 880-1119-1

Login Number: 1119 **List Source: Eurofins Midland**
List Number: 1
Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 880-1119-1

Login Number: 1119
List Number: 2
Creator: Aparicio, Niria

List Source: Eurofins El Paso
List Creation: 04/09/21 12:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-1120-1
Client Project/Site: Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Christopher Knight

Authorized for release by:
4/19/2021 8:15:51 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Dollarhide

Laboratory Job ID: 880-1120-1

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-1120-1
Project/Site: Dollarhide

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

Job ID: 880-1120-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1120-1

Receipt
The samples were received on 4/8/2021 3:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

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

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-1120-1
Project/Site: Dollarhide

Client Sample ID: MW-32-W-210704 Lab Sample ID: 880-1120-1
Date Collected: 04/07/21 13:00 **Matrix: Water**
Date Received: 04/08/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		2.50	0.105	mg/L			04/19/21 15:29	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1120		100	100	mg/L			04/12/21 08:50	1

Client Sample ID: MW-33-W-210704 Lab Sample ID: 880-1120-2
Date Collected: 04/07/21 12:45 **Matrix: Water**
Date Received: 04/08/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		2.50	0.105	mg/L			04/18/21 18:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1040		100	100	mg/L			04/12/21 08:50	1

Client Sample ID: MW-34-W-210704 Lab Sample ID: 880-1120-3
Date Collected: 04/07/21 12:30 **Matrix: Water**
Date Received: 04/08/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		2.50	0.105	mg/L			04/18/21 19:00	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	619		50.0	50.0	mg/L			04/12/21 08:50	1

Client Sample ID: MW-32-WD-210704 Lab Sample ID: 880-1120-4
Date Collected: 04/07/21 00:00 **Matrix: Water**
Date Received: 04/08/21 15:58

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		2.50	0.105	mg/L			04/18/21 19:05	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1170		100	100	mg/L			04/12/21 08:50	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1981/38
Matrix: Water
Analysis Batch: 1981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			04/18/21 17:44	1

Lab Sample ID: LCS 880-1981/39
Matrix: Water
Analysis Batch: 1981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.71		mg/L		103	90 - 110

Lab Sample ID: LCSD 880-1981/40
Matrix: Water
Analysis Batch: 1981

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	25.75		mg/L		103	90 - 110	0	20

Lab Sample ID: 880-1183-A-1 MS
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	170		125	282.3	N1	mg/L		89	90 - 110

Lab Sample ID: 880-1183-A-1 MSD
Matrix: Water
Analysis Batch: 1981

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	170		125	280.6	N1	mg/L		88	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 830-169/1
Matrix: Water
Analysis Batch: 169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			04/12/21 08:50	1

Lab Sample ID: LCS 830-169/2
Matrix: Water
Analysis Batch: 169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1009		mg/L		101	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 830-169/3
Matrix: Water
Analysis Batch: 169

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	981.0		mg/L		98	90 - 110	3	10

Lab Sample ID: 830-259-C-1 DU
Matrix: Water
Analysis Batch: 169

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2140			2122		mg/L				0.8	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

HPLC/IC

Analysis Batch: 1981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1120-1	MW-32-W-210704	Total/NA	Water	300.0	
880-1120-2	MW-33-W-210704	Total/NA	Water	300.0	
880-1120-3	MW-34-W-210704	Total/NA	Water	300.0	
880-1120-4	MW-32-WD-210704	Total/NA	Water	300.0	
MB 880-1981/38	Method Blank	Total/NA	Water	300.0	
LCS 880-1981/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-1981/40	Lab Control Sample Dup	Total/NA	Water	300.0	
880-1183-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-1183-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1120-1	MW-32-W-210704	Total/NA	Water	SM 2540C	
880-1120-2	MW-33-W-210704	Total/NA	Water	SM 2540C	
880-1120-3	MW-34-W-210704	Total/NA	Water	SM 2540C	
880-1120-4	MW-32-WD-210704	Total/NA	Water	SM 2540C	
MB 830-169/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 830-169/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 830-169/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
830-259-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

Client Sample ID: MW-32-W-210704
Lab Sample ID: 880-1120-1
Date Collected: 04/07/21 13:00
Matrix: Water
Date Received: 04/08/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/19/21 15:29	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Client Sample ID: MW-33-W-210704
Lab Sample ID: 880-1120-2
Date Collected: 04/07/21 12:45
Matrix: Water
Date Received: 04/08/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/18/21 18:55	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Client Sample ID: MW-34-W-210704
Lab Sample ID: 880-1120-3
Date Collected: 04/07/21 12:30
Matrix: Water
Date Received: 04/08/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/18/21 19:00	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Client Sample ID: MW-32-WD-210704
Lab Sample ID: 880-1120-4
Date Collected: 04/07/21 00:00
Matrix: Water
Date Received: 04/08/21 15:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	1981	04/18/21 19:05	CH	XM
Total/NA	Analysis	SM 2540C		1	169	04/12/21 08:50	DH	XEP

Laboratory References:

XEP = Eurofins Xenco, El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-1120-1
Project/Site: Dollarhide

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

Laboratory: Eurofins Xenco, El Paso

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704221-20-18	04-30-21

Method Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XM
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEP

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

XEP = Eurofins Xenco, El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-1120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1120-1	MW-32-W-210704	Water	04/07/21 13:00	04/08/21 15:58	
880-1120-2	MW-33-W-210704	Water	04/07/21 12:45	04/08/21 15:58	
880-1120-3	MW-34-W-210704	Water	04/07/21 12:30	04/08/21 15:58	
880-1120-4	MW-32-WD-210704	Water	04/07/21 00:00	04/08/21 15:58	

XENCO LABORATORIES

Chai

Houston,TX (281) 240-4200 Dallas,TX
Midland TX (432-704-5440) EL Paso
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900)

880-1120 Chain of Custody

880-1120

0)

Project Manager	Nick Casten	Bill to (if different)	Gina Blair- Apinvoices-340@ghd com
Company Name	GHD	Company Name	GHD Services Inc.- 340
Address	2135 S Loop 250 West	Address	2055 Niagara Falls Blvd
City, State ZIP	Midland, TX 79703	City, State ZIP	Niagara Falls, NY 14304
Phone	225-292-9007	Email	Nick.Casten@ghd com & Christopher Knight@ghd com & Brittany White@ghd com & edds@ghd com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Dollarhide	Turn Around	
Project Number	55270	Routine	☒
P.O. Number:		Rush.	
Sampler's Name	Charles Nelish Joe Mireles	Due Date	

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	3.5/4.0	Thermometer ID	R8
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	0.5
Sample Custody Seals	Yes No (N/A)	Total Containers	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day received by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS	Sample Comments
MW-32-W-210704	GW	4-7	1300	—	1	X	X	
MW-33 W-210704	GW	4-7	1245	—	1	X	X	
MW-34-W-210704	GW	4-7	1230	—	1	X	X	
MW-32-WD-210704	GW	4-7	—	—	1	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Joe Mireles		4/7/21 15 58	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 880-797.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 880-1120-1
Address: 200 East Sunset Rd., Suite E,	Due Date Requested: 4/13/2021			
City: El Paso	TAT Requested (days):			
State, Zip: TX, 79922				
Phone: 915-585-3443(Tel)	PO #:			
Email:	WO #:			
Project Name: Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-32-W-210704 (880-1120-1)	4/7/21	13:00 Mountain		Water			X	1	
MW-33-W-210704 (880-1120-2)	4/7/21	12:45 Mountain		Water			X	1	
MW-34-W-210704 (880-1120-3)	4/7/21	12:30 Mountain		Water			X	1	
MW-32-WD-210704 (880-1120-4)	4/7/21	Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 4/8/21 1700	Company	Received by:	Date/Time: 4-9-21 10:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 880-1120-1

Login Number: 1120 **List Source: Eurofins Midland**
List Number: 1
Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 880-1120-1

Login Number: 1120
List Number: 2
Creator: Aparicio, Niria

List Source: Eurofins El Paso
List Creation: 04/09/21 12:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Certificate of Analysis Summary 684035

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.29.2021 19:04
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684035-001		684035-002		684035-003		684035-004		684035-005		684035-006	
	Field Id:	MW-29-W-210801		MW-28-W-210801		58-B-3-MW-W-210801		NM-MW-9-W-210801		NM-MW-14-W-210801		Smith Residence-W-2108	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	01.08.2021 13:30		01.08.2021 13:45		01.08.2021 14:00		01.08.2021 14:15		01.08.2021 14:30		01.08.2021 14:45	
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00	
	Analyzed:	01.12.2021 11:15		01.12.2021 11:20		01.12.2021 11:26		01.12.2021 11:31		01.12.2021 11:46		01.12.2021 11:52	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		550	5.00	3940	25.0	1630	25.0	242	2.50	95.2	10.0	1040	10.0
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		1280	5.00	6840	5.00	2800	5.00	789	5.00	455	5.00	1940	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684035

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.29.2021 19:04
Project Manager: Debbie Simmons

Analysis Requested							
	Lab Id:	684035-007		684035-008			
	Field Id:	Wilson Ranch Well-W-21		NM-MW-10-W-210801			
	Depth:						
	Matrix:	GROUND WATER		GROUND WATER			
	Sampled:	01.08.2021 12:15		01.08.2021 11:45			
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.12.2021 10:00		01.12.2021 10:00			
	Analyzed:	01.12.2021 11:57		01.12.2021 12:02			
	Units/RL:	mg/L	RL	mg/L	RL		
Chloride		526	5.00	336	5.00		
TDS by SM2540C	***Extracted:***						
	Analyzed:	01.11.2021 17:00		01.11.2021 17:00			
	Units/RL:	mg/L	RL	mg/L	RL		
Total Dissolved Solids		2070	5.00	1700	5.00		

BRL - Below Reporting Limit

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

Debbie Simmons

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Analytical Report 684035

for

GHD Services, INC- Midland

Project Manager: Nick Casten

Dollarhide

055270

01.29.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.29.2021

Project Manager: **Nick Casten**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **684035**
Dollarhide
Project Address: New Mexico

Nick Casten:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684035. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684035 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-29-W-210801	W	01.08.2021 13:30		684035-001
MW-28-W-210801	W	01.08.2021 13:45		684035-002
58-B-3-MW-W-210801	W	01.08.2021 14:00		684035-003
NM-MW-9-W-210801	W	01.08.2021 14:15		684035-004
NM-MW-14-W-210801	W	01.08.2021 14:30		684035-005
Smith Residence-W-210801	W	01.08.2021 14:45		684035-006
Wilson Ranch Well-W-210801	W	01.08.2021 12:15		684035-007
NM-MW-10-W-210801	W	01.08.2021 11:45		684035-008

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CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Dollarhide

Project ID: *055270*
Work Order Number(s): *684035*

Report Date: *01.29.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-29-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-001 Date Collected: 01.08.2021 13:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**550**	5.00	0.210	mg/L	01.12.2021 11:15		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1280**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-28-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-002 Date Collected: 01.08.2021 13:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3940**	25.0	1.05	mg/L	01.12.2021 11:20		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**6840**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **58-B-3-MW-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-003 Date Collected: 01.08.2021 14:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1630**	25.0	1.05	mg/L	01.12.2021 11:26		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**2800**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-9-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-004 Date Collected: 01.08.2021 14:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**242**	2.50	0.105	mg/L	01.12.2021 11:31		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**789**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-14-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-005 Date Collected: 01.08.2021 14:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**95.2**	10.0	0.421	mg/L	01.12.2021 11:46		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**455**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **Smith Residence-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-006 Date Collected: 01.08.2021 14:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1040**	10.0	0.421	mg/L	01.12.2021 11:52		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1940**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **Wilson Ranch Well-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-007 Date Collected: 01.08.2021 12:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**526**	5.00	0.210	mg/L	01.12.2021 11:57		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**2070**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684035

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-10-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684035-008 Date Collected: 01.08.2021 11:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**336**	5.00	0.210	mg/L	01.12.2021 12:02		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1700**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684035

GHD Services, INC- Midland

Dollarhide

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Water — Date Prep: 01.12.2021
MB Sample Id: 7718951-1-BLK — LCS Sample Id: 7718951-1-BKS — LCSD Sample Id: 7718951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.9	96	23.9	96	90-110	0	20	mg/L	01.12.2021 10:34	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684037-002 — MS Sample Id: 684037-002 S — MSD Sample Id: 684037-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	659	250	908	100	922	105	90-110	2	20	mg/L	01.12.2021 12:18	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Storm Water — Date Prep: 01.12.2021
Parent Sample Id: 684189-001 — MS Sample Id: 684189-001 S — MSD Sample Id: 684189-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.95	25.0	31.7	103	30.7	99	90-110	3	20	mg/L	01.12.2021 10:59	

Analytical Method: TDS by SM2540C
Seq Number: 3147464 — Matrix: Water
MB Sample Id: 3147464-1-BLK — LCS Sample Id: 3147464-1-BKS — LCSD Sample Id: 3147464-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	1000	100	1010	101	80-120	1	10	mg/L	01.11.2021 17:00	

Analytical Method: TDS by SM2540C
Seq Number: 3147464 — Matrix: Ground Water
Parent Sample Id: 684035-001 — MD Sample Id: 684035-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1280	1220	5	10	mg/L	01.11.2021 17:00	

Analytical Method: TDS by SM2540C
Seq Number: 3147464 — Matrix: Ground Water
Parent Sample Id: 684037-003 — MD Sample Id: 684037-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	680	688	1	10	mg/L	01.11.2021 17:00	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 684035

Page 1 of 1

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007	Email:	Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	3.0	Thermometer ID		
Received Intact:	Yes No	IR4		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
MW-29-W-210801	GW	01/08/21	1330	-	1	X	X
MW-28-W-210801	GW	01/08/21	1345	-	1	X	X
58-B-3-MW-W-210801	GW	01/08/21	1400	-	1	X	X
NM-MW-9-W-210801	GW	01/08/21	1415	-	1	X	X
NM-MW-14-W-210801	GW	01/08/21	1430	-	1	X	X
Smith Residence-W-210801	GW	01/08/21	1445	-	1	X	X
Wilson Ranch Well-W-210801	GW	01/08/21	1215	-	1	X	X
NM-MW-10-W-210801	GW	01/08/21	1145	-	1	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-7-21 1624	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.08.2021 04.24.00 PM

Work Order #: 684035

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: JKR PH Device/Lot#: 10BDH1991

Checklist completed by: Brianna Teel Date: 01.08.2021

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 01.16.2021

Debbie Simmons

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Certificate of Analysis Summary 684037

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.20.2021 17:55
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684037-001		684037-002		684037-003		684037-004		684037-005		684037-006	
	Field Id:	NM-MW-1-W-210701		NM-MW-2-W-210701		NM-MW-3-W-210701		NM-MW-4-W-210701		NM-MW-5-W-210701		NM-MW-6-W-210701	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	01.07.2021 13:00		01.07.2021 13:30		01.07.2021 14:00		01.07.2021 15:30		01.07.2021 12:30		01.07.2021 12:00	
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00	
	Analyzed:	01.12.2021 12:07		01.12.2021 12:12		01.12.2021 12:28		01.12.2021 12:33		01.12.2021 12:49		01.12.2021 12:54	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		273	5.00	659	5.00	264	2.50	44.4	2.50	146	5.00	142	2.50
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		1410	5.00	1230	5.00	680	5.00	435	5.00	1260	5.00	811	5.00

BRL - Below Reporting Limit

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 684037

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.20.2021 17:55
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684037-007		684037-008		684037-009		684037-010					
	Field Id:	NM-MW-7-W-210701		NM-MW-8-W-210701		RRR-Ranch Windmill-W		RRR-Ranch Windmill-W					
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER					
	Sampled:	01.07.2021 14:30		01.07.2021 16:00		01.07.2021 15:00		01.07.2021 15:00					
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00		01.12.2021 10:00					
	Analyzed:	01.12.2021 12:59		01.12.2021 13:04		01.12.2021 13:09		01.12.2021 13:15					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Chloride		2170	25.0	6110	25.0	2030	25.0	1930	25.0				
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:00					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Total Dissolved Solids		4550	5.00	11200	5.00	3780	5.00	3830	5.00				

BRL - Below Reporting Limit

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

Debbie Simmons

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Analytical Report 684037

for

GHD Services, INC- Midland

Project Manager: Nick Casten

Dollarhide

055270

01.20.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.20.2021

Project Manager: **Nick Casten**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **684037**
Dollarhide
Project Address: New Mexico

Nick Casten:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684037. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684037 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NM-MW-1-W-210701	W	01.07.2021 13:00		684037-001
NM-MW-2-W-210701	W	01.07.2021 13:30		684037-002
NM-MW-3-W-210701	W	01.07.2021 14:00		684037-003
NM-MW-4-W-210701	W	01.07.2021 15:30		684037-004
NM-MW-5-W-210701	W	01.07.2021 12:30		684037-005
NM-MW-6-W-210701	W	01.07.2021 12:00		684037-006
NM-MW-7-W-210701	W	01.07.2021 14:30		684037-007
NM-MW-8-W-210701	W	01.07.2021 16:00		684037-008
RRR-Ranch Windmill-W-210701	W	01.07.2021 15:00		684037-009
RRR-Ranch Windmill-WD-210701	W	01.07.2021 15:00		684037-010

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CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Dollarhide

Project ID: *055270*
Work Order Number(s): *684037*

Report Date: *01.20.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-1-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-001 Date Collected: 01.07.2021 13:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**273**	5.00	0.210	mg/L	01.12.2021 12:07		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1410**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-2-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-002 Date Collected: 01.07.2021 13:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**659**	5.00	0.210	mg/L	01.12.2021 12:12		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1230**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-3-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-003 Date Collected: 01.07.2021 14:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**264**	2.50	0.105	mg/L	01.12.2021 12:28		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**680**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-4-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-004 Date Collected: 01.07.2021 15:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.4**	2.50	0.105	mg/L	01.12.2021 12:33		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**435**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-5-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-005 Date Collected: 01.07.2021 12:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**146**	5.00	0.210	mg/L	01.12.2021 12:49		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1260**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-6-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-006 Date Collected: 01.07.2021 12:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**142**	2.50	0.105	mg/L	01.12.2021 12:54		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**811**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-7-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-007 Date Collected: 01.07.2021 14:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2170**	25.0	1.05	mg/L	01.12.2021 12:59		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4550**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-8-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-008 Date Collected: 01.07.2021 16:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6110**	25.0	1.05	mg/L	01.12.2021 13:04		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**11200**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **RRR-Ranch Windmill-W-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-009 Date Collected: 01.07.2021 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2030**	25.0	1.05	mg/L	01.12.2021 13:09		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3780**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684037

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **RRR-Ranch Windmill-WD-210701** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684037-010 Date Collected: 01.07.2021 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1930**	25.0	1.05	mg/L	01.12.2021 13:15		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3830**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684037

GHD Services, INC- Midland

Dollarhide

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Water — Date Prep: 01.12.2021
MB Sample Id: 7718951-1-BLK — LCS Sample Id: 7718951-1-BKS — LCSD Sample Id: 7718951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.9	96	23.9	96	90-110	0	20	mg/L	01.12.2021 10:34	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684037-002 — MS Sample Id: 684037-002 S — MSD Sample Id: 684037-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	659	250	908	100	922	105	90-110	2	20	mg/L	01.12.2021 12:18	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Storm Water — Date Prep: 01.12.2021
Parent Sample Id: 684189-001 — MS Sample Id: 684189-001 S — MSD Sample Id: 684189-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.95	25.0	31.7	103	30.7	99	90-110	3	20	mg/L	01.12.2021 10:59	

Analytical Method: TDS by SM2540C
Seq Number: 3147464 — Matrix: Water
MB Sample Id: 3147464-1-BLK — LCS Sample Id: 3147464-1-BKS — LCSD Sample Id: 3147464-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	1000	100	1010	101	80-120	1	10	mg/L	01.11.2021 17:00	

Analytical Method: TDS by SM2540C
Seq Number: 3147464 — Matrix: Ground Water
Parent Sample Id: 684035-001 — MD Sample Id: 684035-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1280	1220	5	10	mg/L	01.11.2021 17:00	

Analytical Method: TDS by SM2540C
Seq Number: 3147464 — Matrix: Ground Water
Parent Sample Id: 684037-003 — MD Sample Id: 684037-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	680	688	1	10	mg/L	01.11.2021 17:00	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684037

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Page 1 of 1

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007 Email:		Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	3.0	Thermometer ID	IR20	
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
NM-MW-1-W-210701	GW	01/07/21	1300	-	1	X	X
NM-MW-2-W-210701	GW	01/07/21	1330	-	1	X	X
NM-MW-3-W-210701	GW	01/07/21	1400	-	1	X	X
NM-MW-4-W-210701	GW	01/07/21	~~1430~~ 1530	-	1	X	X
NM-MW-5-W-210701	GW	01/07/21	1230	-	1	X	X
NM-MW-6-W-210701	GW	01/07/21	1200	-	1	X	X
NM-MW-7-W-210701	GW	01/07/21	1430	-	1	X	X
NM-MW-8-W-210701	GW	01/07/21	1600	-	1	X	X
RRR Ranch Windmill-W-210701	GW	01/07/21	1500	-	1	X	X
RRR Ranch Windmill-WD-210701	GW	01/07/21	1500	-	1	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-8-21 1021	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.08.2021 04.24.00 PM

Work Order #: 684037

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: JKR PH Device/Lot#: 10BDH1991

Checklist completed by: Brianna Teel Date: 01.08.2021

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 01.16.2021

Debbie Simmons

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Certificate of Analysis Summary 684038

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.30.2021 14:12
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684038-001		684038-002		684038-003		684038-004					
	Field Id:	MW-32-W-210801		MW-32-WD-210801		MW-33-W-210801		MW-34-W-210801					
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER					
	Sampled:	01.08.2021 12:45		01.08.2021 12:45		01.08.2021 13:00		01.08.2021 13:15					
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.12.2021 10:00		01.12.2021 11:30		01.12.2021 11:30		01.12.2021 11:30					
	Analyzed:	01.12.2021 13:20		01.12.2021 11:52		01.12.2021 12:08		01.12.2021 12:13					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Chloride		349	5.00	303 X	5.00	190	5.00	70.8	2.50				
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.11.2021 17:00		01.11.2021 17:00		01.11.2021 17:45		01.11.2021 17:45					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Total Dissolved Solids		1170	5.00	1170	5.00	1060	5.00	610	5.00				

BRL - Below Reporting Limit

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

Debbie Simmons

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Analytical Report 684038

for

GHD Services, INC- Midland

Project Manager: Nick Casten

Dollarhide

055270

01.30.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.30.2021

Project Manager: **Nick Casten**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **684038**
Dollarhide
Project Address: New Mexico

Nick Casten:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684038. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684038 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684038

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-32-W-210801	W	01.08.2021 12:45		684038-001
MW-32-WD-210801	W	01.08.2021 12:45		684038-002
MW-33-W-210801	W	01.08.2021 13:00		684038-003
MW-34-W-210801	W	01.08.2021 13:15		684038-004

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CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Dollarhide

Project ID: *055270*
Work Order Number(s): *684038*

Report Date: *01.30.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3147625 Inorganic Anions by EPA 300/300.1

Lab Sample ID 684038-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 684038-002, -003, -004.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 684038

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-32-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684038-001 Date Collected: 01.08.2021 12:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 10:00 % Moisture:

Seq Number: 3147621

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**349**	5.00	0.210	mg/L	01.12.2021 13:20		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1170**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684038

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-32-WD-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684038-002 Date Collected: 01.08.2021 12:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**303**	5.00	0.210	mg/L	01.12.2021 11:52	X	10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147464

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1170**	5.00	5.00	mg/L	01.11.2021 17:00		1

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Certificate of Analytical Results 684038

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-33-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684038-003 Date Collected: 01.08.2021 13:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**190**	5.00	0.210	mg/L	01.12.2021 12:08		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1060**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684038

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-34-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684038-004 Date Collected: 01.08.2021 13:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**70.8**	2.50	0.105	mg/L	01.12.2021 12:13		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**610**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684038

GHD Services, INC- Midland

Dollarhide

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Water — Date Prep: 01.12.2021
MB Sample Id: 7718951-1-BLK — LCS Sample Id: 7718951-1-BKS — LCSD Sample Id: 7718951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.9	96	23.9	96	90-110	0	20	mg/L	01.12.2021 10:34	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147625 — Matrix: Water — Date Prep: 01.12.2021
MB Sample Id: 7718958-1-BLK — LCS Sample Id: 7718958-1-BKS — LCSD Sample Id: 7718958-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.8	95	23.9	96	90-110	0	20	mg/L	01.12.2021 11:42	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684037-002 — MS Sample Id: 684037-002 S — MSD Sample Id: 684037-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	659	250	908	100	922	105	90-110	2	20	mg/L	01.12.2021 12:18	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147621 — Matrix: Storm Water — Date Prep: 01.12.2021
Parent Sample Id: 684189-001 — MS Sample Id: 684189-001 S — MSD Sample Id: 684189-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.95	25.0	31.7	103	30.7	99	90-110	3	20	mg/L	01.12.2021 10:59	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147625 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684038-002 — MS Sample Id: 684038-002 S — MSD Sample Id: 684038-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	303	250	597	118	607	122	90-110	2	20	mg/L	01.12.2021 11:57	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147625 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684039-008 — MS Sample Id: 684039-008 S — MSD Sample Id: 684039-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	430	250	755	130	753	129	90-110	0	20	mg/L	01.12.2021 13:12	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 684038

GHD Services, INC- Midland

Dollarhide

Analytical Method: **TDS by SM2540C**
Seq Number: 3147464 Matrix: Water
MB Sample Id: 3147464-1-BLK LCS Sample Id: 3147464-1-BKS LCSD Sample Id: 3147464-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	1000	100	1010	101	80-120	1	10	mg/L	01.11.2021 17:00	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147465 Matrix: Water
MB Sample Id: 3147465-1-BLK LCS Sample Id: 3147465-1-BKS LCSD Sample Id: 3147465-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	999	100	998	100	80-120	0	10	mg/L	01.11.2021 17:45	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147464 Matrix: Ground Water
Parent Sample Id: 684035-001 MD Sample Id: 684035-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1280	1220	5	10	mg/L	01.11.2021 17:00	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147464 Matrix: Ground Water
Parent Sample Id: 684037-003 MD Sample Id: 684037-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	680	688	1	10	mg/L	01.11.2021 17:00	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147465 Matrix: Ground Water
Parent Sample Id: 684038-003 MD Sample Id: 684038-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1060	1070	1	10	mg/L	01.11.2021 17:45	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 08 4038

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Page 1 of 1

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007	Email:	Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	(Yes) No	
Temperature (°C):	3.4	Thermometer ID		
Received Intact:	(Yes) No		185	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
MW-32-W-210801	GW	01/08/21	1245	-	1	x	x
MW-32-WD-210801	GW	01/08/21	1245	-	1	x	x
MW-33-W-210801	GW	01/08/21	1300	-	1	x	x
MW-34-W-210801	GW	01/08/21	1315	-	1	x	x

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-8-21 1603	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.08.2021 04.24.00 PM

Work Order #: 684038

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: JKR PH Device/Lot#: 10BDH1991

Checklist completed by: Brianna Teel Date: 01.08.2021

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 01.16.2021

Debbie Simmons

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Certificate of Analysis Summary 684039

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.20.2021 17:56
Project Manager: Debbie Simmons

Analysis Requested	*Lab Id:*	684039-001		684039-002		684039-003		684039-004		684039-005		684039-006	
	Field Id:	NM-MW-15-W-210801		NM-MW-11-W-210801		NM-MW-17-W-210801		NM-MW-13-W-210801		NM-MW-20-W-210801		NM-MW-21-W-210801	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	01.08.2021 10:30		01.08.2021 10:15		01.08.2021 10:45		01.08.2021 10:00		01.08.2021 11:30		01.08.2021 11:15	
Inorganic Anions by EPA 300/300.1	*Extracted:*	01.12.2021 11:30		01.12.2021 11:30		01.12.2021 11:30		01.12.2021 11:30		01.12.2021 11:30		01.12.2021 11:30	
	Analyzed:	01.12.2021 12:19		01.12.2021 12:24		01.12.2021 12:40		01.12.2021 12:45		01.12.2021 12:51		01.12.2021 12:56	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		56.4	2.50	152	10.0	182	5.00	185	5.00	23.9	2.50	29.0	2.50
TDS by SM2540C	*Extracted:*												
	Analyzed:	01.11.2021 17:45		01.11.2021 17:45		01.11.2021 17:45		01.11.2021 17:45		01.11.2021 17:45		01.11.2021 17:45	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		507	5.00	2030	5.00	971	5.00	1110	5.00	381	5.00	541	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684039

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Fri 01.08.2021 16:24
Report Date: 01.20.2021 17:56
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684039-007				684039-008							
	Field Id:	NM-MW-13-DW-21080				NM-MW-12-W-210801							
	Depth:												
	Matrix:	GROUND WATER				GROUND WATER							
	Sampled:	01.08.2021 00:00				01.08.2021 12:00							
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.12.2021 11:30				01.12.2021 11:30							
	Analyzed:	01.12.2021 13:01				01.12.2021 13:07							
	Units/RL:	mg/L	RL			mg/L	RL						
Chloride		186	5.00			430 X	5.00						
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.11.2021 17:45				01.11.2021 17:45							
	Units/RL:	mg/L	RL			mg/L	RL						
Total Dissolved Solids		1130	5.00			1160	5.00						

BRL - Below Reporting Limit

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

Debbie Simmons

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Analytical Report 684039

for

GHD Services, INC- Midland

Project Manager: Nick Casten

Dollarhide

055270

01.20.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.20.2021

Project Manager: **Nick Casten**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **684039**
Dollarhide
Project Address: New Mexico

Nick Casten:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684039. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684039 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NM-MW-15-W-210801	W	01.08.2021 10:30		684039-001
NM-MW-11-W-210801	W	01.08.2021 10:15		684039-002
NM-MW-17-W-210801	W	01.08.2021 10:45		684039-003
NM-MW-13-W-210801	W	01.08.2021 10:00		684039-004
NM-MW-20-W-210801	W	01.08.2021 11:30		684039-005
NM-MW-21-W-210801	W	01.08.2021 11:15		684039-006
NM-MW-13-DW-210801	W	01.08.2021 00:00		684039-007
NM-MW-12-W-210801	W	01.08.2021 12:00		684039-008

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CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Dollarhide

Project ID: *055270*
Work Order Number(s): *684039*

Report Date: *01.20.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3147625 Inorganic Anions by EPA 300/300.1

Lab Sample ID 684039-008 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 684039-001, -002, -003, -004, -005, -006, -007, -008.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-15-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-001 Date Collected: 01.08.2021 10:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.4**	2.50	0.105	mg/L	01.12.2021 12:19		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**507**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-11-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-002 Date Collected: 01.08.2021 10:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**152**	10.0	0.421	mg/L	01.12.2021 12:24		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**2030**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-17-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-003 Date Collected: 01.08.2021 10:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**182**	5.00	0.210	mg/L	01.12.2021 12:40		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**971**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-13-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-004 Date Collected: 01.08.2021 10:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**185**	5.00	0.210	mg/L	01.12.2021 12:45		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1110**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-20-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-005 Date Collected: 01.08.2021 11:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.9**	2.50	0.105	mg/L	01.12.2021 12:51		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**381**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-21-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-006 Date Collected: 01.08.2021 11:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.0**	2.50	0.105	mg/L	01.12.2021 12:56		5

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**541**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-13-DW-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-007 Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**186**	5.00	0.210	mg/L	01.12.2021 13:01		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1130**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Certificate of Analytical Results 684039

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **NM-MW-12-W-210801** Matrix: Ground Water Date Received:01.08.2021 16:24

Lab Sample Id: 684039-008 Date Collected: 01.08.2021 12:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.12.2021 11:30 % Moisture:

Seq Number: 3147625

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**430**	5.00	0.210	mg/L	01.12.2021 13:07	X	10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147465

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1160**	5.00	5.00	mg/L	01.11.2021 17:45		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684039

GHD Services, INC- Midland

Dollarhide

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147625 — Matrix: Water — Date Prep: 01.12.2021
MB Sample Id: 7718958-1-BLK — LCS Sample Id: 7718958-1-BKS — LCSD Sample Id: 7718958-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.8	95	23.9	96	90-110	0	20	mg/L	01.12.2021 11:42	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147625 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684038-002 — MS Sample Id: 684038-002 S — MSD Sample Id: 684038-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	303	250	597	118	607	122	90-110	2	20	mg/L	01.12.2021 11:57	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147625 — Matrix: Ground Water — Date Prep: 01.12.2021
Parent Sample Id: 684039-008 — MS Sample Id: 684039-008 S — MSD Sample Id: 684039-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	430	250	755	130	753	129	90-110	0	20	mg/L	01.12.2021 13:12	X

Analytical Method: TDS by SM2540C
Seq Number: 3147465 — Matrix: Water
MB Sample Id: 3147465-1-BLK — LCS Sample Id: 3147465-1-BKS — LCSD Sample Id: 3147465-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	999	100	998	100	80-120	0	10	mg/L	01.11.2021 17:45	

Analytical Method: TDS by SM2540C
Seq Number: 3147465 — Matrix: Ground Water
Parent Sample Id: 684038-003 — MD Sample Id: 684038-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1060	1070	1	10	mg/L	01.11.2021 17:45	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 484039

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Page 1 of 1

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007 Email:		Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	3.6	Thermometer ID		
Received Intact:	Yes No		112	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS	Sample Comments
NM-MW-15-W-210801	GW	1/8/21	1030	T.D.	1	X	X	
NM-MW-11-W-210801			1015		1	X	X	
NM-MW-17-W-210801			1045		1	X	X	
NM-MW-13-W-210801			1000		1	X	X	
NM-MW-20-W-210801			1130		1	X	X	
NM-MW-21-W-210801			1115		1	X	X	
NM-MW-13-DW-210801		—	—		1	X	X	
NM-MW-12-W-210801	GW	1/8/21	1200	T.D.	1	X	X	

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471**: Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-19 1602	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.08.2021 04.24.00 PM

Work Order #: 684039

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: JKR

PH Device/Lot#: 10BDH1991

Checklist completed by: Brianna Teel — Date: 01.08.2021

Checklist reviewed by: Debbie Simmons — Date: 01.16.2021

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 684283

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 08:38
Report Date: 01.29.2021 19:08
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684283-001		684283-002		684283-003		684283-004		684283-005		684283-006	
	Field Id:	MW-3-W-211101		MW-4-W-211101		MW-5-W-211101		MW-6-W-211101		MW-10-W-211101		MW-11-W-211101	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	01.11.2021 11:50		01.11.2021 11:30		01.11.2021 14:15		01.11.2021 14:25		01.11.2021 13:35		01.11.2021 14:35	
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30	
	Analyzed:	01.13.2021 17:19		01.13.2021 17:35		01.13.2021 17:41		01.13.2021 17:46		01.13.2021 17:51		01.13.2021 18:07	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		605	5.00	327	5.00	252	5.00	380	5.00	3880	25.0	7290	50.0
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		1470	5.00	911	5.00	975	5.00	1580	5.00	8180	5.00	11900	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684283

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 08:38
Report Date: 01.29.2021 19:08
Project Manager: Debbie Simmons

Analysis Requested	*Lab Id:*	684283-007		684283-008		684283-009		684283-010		684283-011		684283-012	
	Field Id:	MW-12-W-211101		MW-13-W-211101		MW-13-WD-211101		MW-14-W-211101		MW-15-W-211101		MW-16-W-211101	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	01.11.2021 15:00		01.11.2021 11:20		01.11.2021 11:20		01.11.2021 12:10		01.11.2021 12:20		01.11.2021 12:35	
Inorganic Anions by EPA 300/300.1	*Extracted:*	01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30	
	Analyzed:	01.13.2021 18:13		01.13.2021 18:18		01.13.2021 18:23		01.13.2021 18:28		01.13.2021 18:34		01.13.2021 18:50	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		13300	50.0	1270	25.0	1600	25.0	1260	25.0	902 X	10.0	403	5.00
TDS by SM2540C	*Extracted:*												
	Analyzed:	01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		22300	5.00	4180	5.00	4260	5.00	3210	5.00	1880	5.00	1050	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684283

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 08:38
Report Date: 01.29.2021 19:08
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684283-013		684283-014		684283-015		684283-016		684283-017		684283-018	
	Field Id:	MW-17-W-211101		MW-19-W-211101		MW-20-W-211101		MW-21-W-211101		MW-22-W-211101		MW-23-W-211101	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	01.11.2021 10:45		01.11.2021 13:00		01.11.2021 13:15		01.11.2021 12:45		01.11.2021 11:00		01.11.2021 10:55	
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30	
	Analyzed:	01.13.2021 18:55		01.13.2021 19:11		01.13.2021 19:16		01.13.2021 19:22		01.13.2021 19:27		01.13.2021 19:32	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		7680	50.0	7350	50.0	1130	10.0	3050	25.0	11000	50.0	4160	25.0
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18		01.13.2021 12:18	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		4200	5.00	12500	5.00	2460	5.00	10100	5.00	17600	5.00	8970	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684283

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 08:38
Report Date: 01.29.2021 19:08
Project Manager: Debbie Simmons

Analysis Requested	*Lab Id:*	684283-019		684283-020		684283-021		684283-022		684283-023		684283-024	
	Field Id:	MW-24-W-211101		MW-25-W-211101		MW-26-W-211101		MW-27-W-211101		MW-30-W-211101		MW-31-W-211101	
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	Sampled:	01.11.2021 13:45		01.11.2021 15:10		01.11.2021 13:10		01.11.2021 13:30		01.11.2021 11:10		01.11.2021 14:55	
Inorganic Anions by EPA 300/300.1	*Extracted:*	01.13.2021 14:30		01.13.2021 14:30		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15	
	Analyzed:	01.13.2021 19:38		01.13.2021 19:43		01.13.2021 11:47		01.13.2021 12:12		01.13.2021 12:17		01.13.2021 12:22	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		1680	25.0	23900	100	1400	25.0	2210	25.0	2100	25.0	9500	50.0
TDS by SM2540C	*Extracted:*												
	Analyzed:	01.13.2021 12:18		01.13.2021 12:18		01.12.2021 10:16		01.12.2021 10:16		01.12.2021 10:16		01.12.2021 10:16	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		8690	5.00	36600	5.00	3370	5.00	4160	5.00	4050	5.00	17100	5.00

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Certificate of Analysis Summary 684283

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 08:38
Report Date: 01.29.2021 19:08
Project Manager: Debbie Simmons

Analysis Requested									
	Lab Id:	684283-025		684283-026					
	Field Id:	Livermore-W-211101		MW-18-W-211101					
	Depth:								
	Matrix:	WATER		WATER					
	Sampled:	01.11.2021 14:05		01.11.2021 13:55					
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.13.2021 11:15		01.14.2021 08:30					
	Analyzed:	01.13.2021 12:27		01.15.2021 09:13					
	Units/RL:	mg/L	RL	mg/L	RL				
Chloride		2200	25.0	21000	100				
TDS by SM2540C	***Extracted:***								
	Analyzed:	01.12.2021 10:16		01.12.2021 10:16					
	Units/RL:	mg/L	RL	mg/L	RL				
Total Dissolved Solids		4290	5.00	35800	5.00				

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Debbie Simmons

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Analytical Report 684283

for

GHD Services, INC- Midland

Project Manager: Nick Casten

Dollarhide

055270

01.29.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.29.2021

Project Manager: **Nick Casten**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **684283**
Dollarhide
Project Address: New Mexico

Nick Casten:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684283. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684283 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

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Sample Cross Reference 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-3-W-211101	W	01.11.2021 11:50		684283-001
MW-4-W-211101	W	01.11.2021 11:30		684283-002
MW-5-W-211101	W	01.11.2021 14:15		684283-003
MW-6-W-211101	W	01.11.2021 14:25		684283-004
MW-10-W-211101	W	01.11.2021 13:35		684283-005
MW-11-W-211101	W	01.11.2021 14:35		684283-006
MW-12-W-211101	W	01.11.2021 15:00		684283-007
MW-13-W-211101	W	01.11.2021 11:20		684283-008
MW-13-WD-211101	W	01.11.2021 11:20		684283-009
MW-14-W-211101	W	01.11.2021 12:10		684283-010
MW-15-W-211101	W	01.11.2021 12:20		684283-011
MW-16-W-211101	W	01.11.2021 12:35		684283-012
MW-17-W-211101	W	01.11.2021 10:45		684283-013
MW-19-W-211101	W	01.11.2021 13:00		684283-014
MW-20-W-211101	W	01.11.2021 13:15		684283-015
MW-21-W-211101	W	01.11.2021 12:45		684283-016
MW-22-W-211101	W	01.11.2021 11:00		684283-017
MW-23-W-211101	W	01.11.2021 10:55		684283-018
MW-24-W-211101	W	01.11.2021 13:45		684283-019
MW-25-W-211101	W	01.11.2021 15:10		684283-020
MW-26-W-211101	W	01.11.2021 13:10		684283-021
MW-27-W-211101	W	01.11.2021 13:30		684283-022
MW-30-W-211101	W	01.11.2021 11:10		684283-023
MW-31-W-211101	W	01.11.2021 14:55		684283-024
Livermore-W-211101	W	01.11.2021 14:05		684283-025
MW-18-W-211101	W	01.11.2021 13:55		684283-026

CASE NARRATIVE

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Client Name: GHD Services, INC- Midland

Project Name: Dollarhide

Project ID: *055270*
Work Order Number(s): *684283*

Report Date: *01.29.2021*
Date Received: *01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3147777 Inorganic Anions by EPA 300/300.1

Lab Sample ID 684283-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 684283-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-3-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-001 Date Collected: 01.11.2021 11:50

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**605**	5.00	0.210	mg/L	01.13.2021 17:19		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1470**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-4-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-002 Date Collected: 01.11.2021 11:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**327**	5.00	0.210	mg/L	01.13.2021 17:35		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**911**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-5-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-003 Date Collected: 01.11.2021 14:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**252**	5.00	0.210	mg/L	01.13.2021 17:41		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**975**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-6-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-004 Date Collected: 01.11.2021 14:25

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**380**	5.00	0.210	mg/L	01.13.2021 17:46		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1580**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-10-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-005 Date Collected: 01.11.2021 13:35

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3880**	25.0	1.05	mg/L	01.13.2021 17:51		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**8180**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-11-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-006 Date Collected: 01.11.2021 14:35

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7290**	50.0	2.10	mg/L	01.13.2021 18:07		100

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**11900**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-12-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-007 Date Collected: 01.11.2021 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13300**	50.0	2.10	mg/L	01.13.2021 18:13		100

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**22300**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-13-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-008 Date Collected: 01.11.2021 11:20

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1270**	25.0	1.05	mg/L	01.13.2021 18:18		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4180**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-13-WD-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-009 Date Collected: 01.11.2021 11:20

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1600**	25.0	1.05	mg/L	01.13.2021 18:23		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4260**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-14-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-010 Date Collected: 01.11.2021 12:10

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1260**	25.0	1.05	mg/L	01.13.2021 18:28		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3210**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-15-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-011 Date Collected: 01.11.2021 12:20

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**902**	10.0	0.421	mg/L	01.13.2021 18:34	X	20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1880**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-16-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-012 Date Collected: 01.11.2021 12:35

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**403**	5.00	0.210	mg/L	01.13.2021 18:50		10

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1050**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-17-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-013 Date Collected: 01.11.2021 10:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7680**	50.0	2.10	mg/L	01.13.2021 18:55		100

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4200**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

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Sample Id: **MW-19-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-014 Date Collected: 01.11.2021 13:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7350**	50.0	2.10	mg/L	01.13.2021 19:11		100

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**12500**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Dollarhide

Sample Id: **MW-20-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-015 Date Collected: 01.11.2021 13:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1130**	10.0	0.421	mg/L	01.13.2021 19:16		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**2460**	5.00	5.00	mg/L	01.13.2021 12:18		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-21-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-016 Date Collected: 01.11.2021 12:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3050**	25.0	1.05	mg/L	01.13.2021 19:22		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**10100**	5.00	5.00	mg/L	01.13.2021 12:18		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-22-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-017 Date Collected: 01.11.2021 11:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11000**	50.0	2.10	mg/L	01.13.2021 19:27		100

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**17600**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Dollarhide

Sample Id: **MW-23-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-018 Date Collected: 01.11.2021 10:55

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4160**	25.0	1.05	mg/L	01.13.2021 19:32		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**8970**	5.00	5.00	mg/L	01.13.2021 12:18		1

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GHD Services, INC- Midland, Midland, TX

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Sample Id: **MW-24-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-019 Date Collected: 01.11.2021 13:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1680**	25.0	1.05	mg/L	01.13.2021 19:38		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**8690**	5.00	5.00	mg/L	01.13.2021 12:18		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-25-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-020 Date Collected: 01.11.2021 15:10

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 14:30 % Moisture:

Seq Number: 3147777

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23900**	100	4.21	mg/L	01.13.2021 19:43		200

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147468

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**36600**	5.00	5.00	mg/L	01.13.2021 12:18		1

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Sample Id: **MW-26-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-021 Date Collected: 01.11.2021 13:10

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1400**	25.0	1.05	mg/L	01.13.2021 11:47		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3370**	5.00	5.00	mg/L	01.12.2021 10:16		1

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Sample Id: **MW-27-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-022 Date Collected: 01.11.2021 13:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2210**	25.0	1.05	mg/L	01.13.2021 12:12		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4160**	5.00	5.00	mg/L	01.12.2021 10:16		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-30-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-023 Date Collected: 01.11.2021 11:10

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2100**	25.0	1.05	mg/L	01.13.2021 12:17		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4050**	5.00	5.00	mg/L	01.12.2021 10:16		1

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Certificate of Analytical Results 684283

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-31-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-024 Date Collected: 01.11.2021 14:55

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9500**	50.0	2.10	mg/L	01.13.2021 12:22		100

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**17100**	5.00	5.00	mg/L	01.12.2021 10:16		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **Livermore-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-025 Date Collected: 01.11.2021 14:05

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2200**	25.0	1.05	mg/L	01.13.2021 12:27		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4290**	5.00	5.00	mg/L	01.12.2021 10:16		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-18-W-211101** Matrix: Water Date Received:01.12.2021 08:38

Lab Sample Id: 684283-026 Date Collected: 01.11.2021 13:55

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.14.2021 08:30 % Moisture:

Seq Number: 3147887

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21000**	100	4.21	mg/L	01.15.2021 09:13		200

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**35800**	5.00	5.00	mg/L	01.12.2021 10:16		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684283

GHD Services, INC- Midland

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Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147770 — Matrix: Water — Date Prep: 01.13.2021
MB Sample Id: 7719059-1-BLK — LCS Sample Id: 7719059-1-BKS — LCSD Sample Id: 7719059-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.9	96	23.8	95	90-110	0	20	mg/L	01.13.2021 11:31	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147777 — Matrix: Water — Date Prep: 01.13.2021
MB Sample Id: 7719083-1-BLK — LCS Sample Id: 7719083-1-BKS — LCSD Sample Id: 7719083-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	24.3	97	24.2	97	90-110	0	20	mg/L	01.13.2021 17:09	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147887 — Matrix: Water — Date Prep: 01.14.2021
MB Sample Id: 7719174-1-BLK — LCS Sample Id: 7719174-1-BKS — LCSD Sample Id: 7719174-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	25.4	102	25.4	102	90-110	0	20	mg/L	01.14.2021 15:45	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147770 — Matrix: Water — Date Prep: 01.13.2021
Parent Sample Id: 684283-021 — MS Sample Id: 684283-021 S — MSD Sample Id: 684283-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1400	1250	2660	101	2660	101	90-110	0	20	mg/L	01.13.2021 11:56	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147770 — Matrix: Ground Water — Date Prep: 01.13.2021
Parent Sample Id: 684389-005 — MS Sample Id: 684389-005 S — MSD Sample Id: 684389-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4870	1250	6140	102	6140	102	90-110	0	20	mg/L	01.13.2021 14:14	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147777 — Matrix: Water — Date Prep: 01.13.2021
Parent Sample Id: 684283-001 — MS Sample Id: 684283-001 S — MSD Sample Id: 684283-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	605	250	854	100	852	99	90-110	0	20	mg/L	01.13.2021 17:25	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery — [D] = 100 * (C) / [B]
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 684283

GHD Services, INC- Midland

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Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3147777 Matrix: Water Date Prep: 01.13.2021
Parent Sample Id: 684283-011 MS Sample Id: 684283-011 S MSD Sample Id: 684283-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	902	500	1560	132	1570	134	90-110	1	20	mg/L	01.13.2021 18:39	X

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Seq Number: 3147887 Matrix: Drinking Water Date Prep: 01.14.2021
Parent Sample Id: 684579-001 MS Sample Id: 684579-001 S MSD Sample Id: 684579-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.68	25.0	32.1	102	32.1	102	90-110	0	20	mg/L	01.14.2021 16:23	

Analytical Method: TDS by SM2540C
Seq Number: 3147468 Matrix: Water
MB Sample Id: 3147468-1-BLK LCS Sample Id: 3147468-1-BKS LCSD Sample Id: 3147468-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	1000	100	1000	100	80-120	0	10	mg/L	01.13.2021 12:18	

Analytical Method: TDS by SM2540C
Seq Number: 3147470 Matrix: Water
MB Sample Id: 3147470-1-BLK LCS Sample Id: 3147470-1-BKS LCSD Sample Id: 3147470-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	992	99	1010	101	80-120	2	10	mg/L	01.12.2021 10:16	

Analytical Method: TDS by SM2540C
Seq Number: 3147468 Matrix: Water
Parent Sample Id: 684283-001 MD Sample Id: 684283-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1470	1470	0	10	mg/L	01.13.2021 12:18	

Analytical Method: TDS by SM2540C
Seq Number: 3147468 Matrix: Water
Parent Sample Id: 684283-011 MD Sample Id: 684283-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1880	1900	1	10	mg/L	01.13.2021 12:18	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 684283

GHD Services, INC- Midland

Dollarhide

Analytical Method: **TDS by SM2540C**
Seq Number: 3147470 Matrix: Water
Parent Sample Id: 684283-021 MD Sample Id: 684283-021 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	3370	3740	10	10	mg/L	01.12.2021 10:16	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147470 Matrix: Ground Water
Parent Sample Id: 684389-004 MD Sample Id: 684389-004 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	8640	8600	0	10	mg/L	01.13.2021 14:30	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 604283

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007	Email:	Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	4.8	Thermometer ID		
Received Intact:	Yes No	1128		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
MW-3-W-211101	GW	01/11/21	1150	-	1	X	X
MW-4-W-211101	GW	01/11/21	1130	-	1	X	X
MW-5-W-211101	GW	01/11/21	1415	-	1	X	X
MW-6-W-211101	GW	01/11/21	1425	-	1	X	X
MW-10-W-211101	GW	01/11/21	1335	-	1	X	X
MW-11-W-211101	GW	01/11/21	1435	-	1	X	X
MW-12-W-211101	GW	01/11/21	1500	-	1	X	X
MW-13-W-211101	GW	01/11/21	1120	-	1	X	X
MW-13-WD-211101	GW	01/11/21	1120	-	1	X	X
MW-14-W-211101	GW	01/11/21	1210	-	1	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-12-21 838	2		
3			4		
5			6		

Chain of Custody

Work Order No: 684703

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone: 225-292-9007	Email:	Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com	

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Langhlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	4.8	Thermometer ID		
Received Intact:	Yes No	102		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS	Sample Comments
MW-15-W-211101	GW	01/11/21	1220	-	1	X	X	
MW-16-W-211101	GW	01/11/21	1235	-	1	X	X	
MW-17-W-211101	GW	01/11/21	1045	-	1	X	X	
MW-19-W-211101	GW	01/11/21	1300	-	1	X	X	
MW-20-W-211101	GW	01/11/21	1315	-	1	X	X	
MW-21-W-211101	GW	01/11/21	1245	-	1	X	X	
MW-22-W-211101	GW	01/11/21	1100	-	1	X	X	
MW-23-W-211101	GW	01/11/21	1055	-	1	X	X	
MW-24-W-211101	GW	01/11/21	1345	-	1	X	X	
MW-25-W-211101	GW	01/11/21	1510	-	1	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-12-21 838	2		
3			4		
5			6		

Chain of Custody

Work Order No: 684283

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007 Email:		Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Langhlin	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	4.8	Thermometer ID		
Received Intact:	(Yes) No		188	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS
MW-26-W-211101	GW	01/11/21	1310	-	1	X	X
MW-27-W-211101	GW	01/11/21	1330	-	1	X	X
MW-30-W-211101	GW	01/11/21	1110	-	1	X	X
MW-31-W-211101	GW	01/11/21	1455	-	1	X	X
Livermore-W-211101	GW	01/11/21	1405	-	1	X	X
MW-18-W-211101	GW	01/11/21	1355	-	1	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/12/21 838	2		
3			4		
5			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.12.2021 08.38.00 AM

Work Order #: 684283

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.8
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: JKR PH Device/Lot#: 10BDH1991

Checklist completed by: Brianna Teel Date: 01.12.2021

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 01.16.2021

Debbie Simmons

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Certificate of Analysis Summary 684389

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 15:18
Report Date: 01.30.2021 14:27
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	684389-001		684389-002		684389-003		684389-004		684389-005		684389-006	
	Field Id:	43-K-1-MW-W-211201		44-I-1-MW-W-211201		44-J-1-MW-W-211201		44-J-2-MW-W-211201		44-J-3-MW-W-211201		44-J-4-MW-W-211201	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	01.12.2021 13:10		01.12.2021 11:20		01.12.2021 10:55		01.12.2021 10:40		01.12.2021 11:05		01.12.2021 11:10	
Inorganic Anions by EPA 300/300.1	***Extracted:***	01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15	
	Analyzed:	01.13.2021 12:54		01.13.2021 12:59		01.13.2021 13:58		01.13.2021 14:03		01.13.2021 14:08		01.13.2021 14:24	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		5620	25.0	3540	25.0	3730	25.0	4890	25.0	4870	25.0	3930	25.0
TDS by SM2540C	***Extracted:***												
	Analyzed:	01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		10200	5.00	6240	5.00	6700	5.00	8640	5.00	8630	5.00	7070	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684389

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 15:18
Report Date: 01.30.2021 14:27
Project Manager: Debbie Simmons

Analysis Requested	*Lab Id:*	684389-007		684389-008		684389-009		684389-010		684389-011		684389-012	
	Field Id:	44-J-5-MW-W-211201		44-E-1-MW-W-211201		45-E-2-MW-W-211201		45-E-2-M-WD-211201		45-E-3-MW-W-211201		45-F-1-MW-W-211201	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	01.12.2021 11:00		01.12.2021 11:45		01.12.2021 11:40		01.12.2021 11:40		01.12.2021 13:05		01.12.2021 12:05	
Inorganic Anions by EPA 300/300.1	*Extracted:*	01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15		01.13.2021 11:15	
	Analyzed:	01.13.2021 14:29		01.13.2021 14:51		01.13.2021 14:56		01.13.2021 15:01		01.13.2021 15:06		01.13.2021 15:11	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		4140	25.0	2490	25.0	1670	25.0	1660	25.0	4260	25.0	991	10.0
TDS by SM2540C	*Extracted:*												
	Analyzed:	01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30		01.13.2021 14:30	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		7520	5.00	4680	5.00	3080	5.00	3130	5.00	7790	5.00	1770	5.00

BRL - Below Reporting Limit

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

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Certificate of Analysis Summary 684389

GHD Services, INC- Midland, Midland, TX

Project Name: Dollarhide

Project Id: 055270
Contact: Nick Casten
Project Location: New Mexico

Date Received in Lab: Tue 01.12.2021 15:18
Report Date: 01.30.2021 14:27
Project Manager: Debbie Simmons

Analysis Requested	*Lab Id:*	684389-013		684389-014		684389-015		684389-016		684389-017		684389-018	
	Field Id:	45-FF-MW-W-211201		58-B-1-MW-W-211201		58-B-2-MW-W-211201		MW-8-W-211201		MW-9-W-211201		DHU-FWS-W-211201	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	01.12.2021 11:55		01.12.2021 12:45		01.12.2021 12:50		01.12.2021 12:25		01.12.2021 12:35		01.12.2021 12:20	
Inorganic Anions by EPA 300/300.1	*Extracted:*	01.13.2021 11:15		01.13.2021 12:00		01.13.2021 12:00		01.13.2021 12:00		01.13.2021 12:00		01.13.2021 12:00	
	Analyzed:	01.13.2021 15:17		01.13.2021 12:58		01.13.2021 13:30		01.13.2021 13:35		01.13.2021 13:40		01.13.2021 13:46	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		3770	25.0	6230 X	25.0	3560	25.0	994	10.0	2670	25.0	625	10.0
TDS by SM2540C	*Extracted:*												
	Analyzed:	01.13.2021 14:30		01.13.2021 16:00		01.13.2021 16:00		01.13.2021 16:00		01.13.2021 16:00		01.13.2021 16:00	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Total Dissolved Solids		6450	5.00	10500	5.00	1240	5.00	2420	5.00	4760	5.00	3120	5.00

BRL - Below Reporting Limit

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

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Analytical Report 684389

for

GHD Services, INC- Midland

Project Manager: Nick Casten

Dollarhide

055270

01.30.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.30.2021

Project Manager: **Nick Casten**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **684389**
Dollarhide
Project Address: New Mexico

Nick Casten:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684389. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684389 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
43-K-1-MW-W-211201	W	01.12.2021 13:10		684389-001
44-I-1-MW-W-211201	W	01.12.2021 11:20		684389-002
44-J-1-MW-W-211201	W	01.12.2021 10:55		684389-003
44-J-2-MW-W-211201	W	01.12.2021 10:40		684389-004
44-J-3-MW-W-211201	W	01.12.2021 11:05		684389-005
44-J-4-MW-W-211201	W	01.12.2021 11:10		684389-006
44-J-5-MW-W-211201	W	01.12.2021 11:00		684389-007
44-E-1-MW-W-211201	W	01.12.2021 11:45		684389-008
45-E-2-MW-W-211201	W	01.12.2021 11:40		684389-009
45-E-2-M-WD-211201	W	01.12.2021 11:40		684389-010
45-E-3-MW-W-211201	W	01.12.2021 13:05		684389-011
45-F-1-MW-W-211201	W	01.12.2021 12:05		684389-012
45-FF-MW-W-211201	W	01.12.2021 11:55		684389-013
58-B-1-MW-W-211201	W	01.12.2021 12:45		684389-014
58-B-2-MW-W-211201	W	01.12.2021 12:50		684389-015
MW-8-W-211201	W	01.12.2021 12:25		684389-016
MW-9-W-211201	W	01.12.2021 12:35		684389-017
DHU-FWS-W-211201	W	01.12.2021 12:20		684389-018

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CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Dollarhide

Project ID: *055270*
Work Order Number(s): *684389*

Report Date: *01.30.2021*
Date Received: *01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3147781 Inorganic Anions by EPA 300/300.1

Lab Sample ID 684389-014 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 684389-014, -015, -016, -017, -018.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **43-K-1-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-001 Date Collected: 01.12.2021 13:10

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5620**	25.0	1.05	mg/L	01.13.2021 12:54		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**10200**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-I-1-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-002 Date Collected: 01.12.2021 11:20

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3540**	25.0	1.05	mg/L	01.13.2021 12:59		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**6240**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-J-1-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-003 Date Collected: 01.12.2021 10:55

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3730**	25.0	1.05	mg/L	01.13.2021 13:58		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**6700**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-J-2-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-004 Date Collected: 01.12.2021 10:40

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4890**	25.0	1.05	mg/L	01.13.2021 14:03		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**8640**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-J-3-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-005 Date Collected: 01.12.2021 11:05

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4870**	25.0	1.05	mg/L	01.13.2021 14:08		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**8630**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-J-4-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-006 Date Collected: 01.12.2021 11:10

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3930**	25.0	1.05	mg/L	01.13.2021 14:24		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**7070**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-J-5-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-007 Date Collected: 01.12.2021 11:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4140**	25.0	1.05	mg/L	01.13.2021 14:29		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**7520**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **44-E-1-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-008 Date Collected: 01.12.2021 11:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2490**	25.0	1.05	mg/L	01.13.2021 14:51		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4680**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **45-E-2-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-009 Date Collected: 01.12.2021 11:40

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1670**	25.0	1.05	mg/L	01.13.2021 14:56		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3080**	5.00	5.00	mg/L	01.13.2021 14:30		1

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GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **45-E-2-M-WD-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-010 Date Collected: 01.12.2021 11:40

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1660**	25.0	1.05	mg/L	01.13.2021 15:01		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3130**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **45-E-3-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-011 Date Collected: 01.12.2021 13:05

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4260**	25.0	1.05	mg/L	01.13.2021 15:06		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**7790**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **45-F-1-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-012 Date Collected: 01.12.2021 12:05

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**991**	10.0	0.421	mg/L	01.13.2021 15:11		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1770**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **45-FF-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-013 Date Collected: 01.12.2021 11:55

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 11:15 % Moisture:

Seq Number: 3147770

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3770**	25.0	1.05	mg/L	01.13.2021 15:17		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147470

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**6450**	5.00	5.00	mg/L	01.13.2021 14:30		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **58-B-1-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-014 Date Collected: 01.12.2021 12:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 12:00 % Moisture:

Seq Number: 3147781

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6230**	25.0	1.05	mg/L	01.13.2021 12:58	X	50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147722

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**10500**	5.00	5.00	mg/L	01.13.2021 16:00		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **58-B-2-MW-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-015 Date Collected: 01.12.2021 12:50

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 12:00 % Moisture:

Seq Number: 3147781

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3560**	25.0	1.05	mg/L	01.13.2021 13:30		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147722

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**1240**	5.00	5.00	mg/L	01.13.2021 16:00		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-8-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-016 Date Collected: 01.12.2021 12:25

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 12:00 % Moisture:

Seq Number: 3147781

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**994**	10.0	0.421	mg/L	01.13.2021 13:35		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147722

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**2420**	5.00	5.00	mg/L	01.13.2021 16:00		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **MW-9-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-017 Date Collected: 01.12.2021 12:35

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 12:00 % Moisture:

Seq Number: 3147781

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2670**	25.0	1.05	mg/L	01.13.2021 13:40		50

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147722

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**4760**	5.00	5.00	mg/L	01.13.2021 16:00		1

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Certificate of Analytical Results 684389

GHD Services, INC- Midland, Midland, TX

Dollarhide

Sample Id: **DHU-FWS-W-211201** Matrix: Ground Water Date Received:01.12.2021 15:18

Lab Sample Id: 684389-018 Date Collected: 01.12.2021 12:20

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.13.2021 12:00 % Moisture:

Seq Number: 3147781

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**625**	10.0	0.421	mg/L	01.13.2021 13:46		20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst: SPC % Moisture:

Seq Number: 3147722

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**3120**	5.00	5.00	mg/L	01.13.2021 16:00		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684389

GHD Services, INC- Midland

Dollarhide

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147770 — Matrix: Water — Date Prep: 01.13.2021
MB Sample Id: 7719059-1-BLK — LCS Sample Id: 7719059-1-BKS — LCSD Sample Id: 7719059-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	23.9	96	23.8	95	90-110	0	20	mg/L	01.13.2021 11:31	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147781 — Matrix: Water — Date Prep: 01.13.2021
MB Sample Id: 7719078-1-BLK — LCS Sample Id: 7719078-1-BKS — LCSD Sample Id: 7719078-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.0210	25.0	24.1	96	24.1	96	90-110	0	20	mg/L	01.13.2021 12:37	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147770 — Matrix: Water — Date Prep: 01.13.2021
Parent Sample Id: 684283-021 — MS Sample Id: 684283-021 S — MSD Sample Id: 684283-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1400	1250	2660	101	2660	101	90-110	0	20	mg/L	01.13.2021 11:56	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147770 — Matrix: Ground Water — Date Prep: 01.13.2021
Parent Sample Id: 684389-005 — MS Sample Id: 684389-005 S — MSD Sample Id: 684389-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4870	1250	6140	102	6140	102	90-110	0	20	mg/L	01.13.2021 14:14	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147781 — Matrix: Ground Water — Date Prep: 01.13.2021
Parent Sample Id: 684389-014 — MS Sample Id: 684389-014 S — MSD Sample Id: 684389-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6230	1250	7650	114	7680	116	90-110	0	20	mg/L	01.13.2021 13:09	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3147781 — Matrix: Water — Date Prep: 01.13.2021
Parent Sample Id: 684514-003 — MS Sample Id: 684514-003 S — MSD Sample Id: 684514-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.0	25.0	34.8	99	34.9	100	90-110	0	20	mg/L	01.13.2021 15:00	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 684389

GHD Services, INC- Midland

Dollarhide

Analytical Method: **TDS by SM2540C**
Seq Number: 3147470 Matrix: Water
MB Sample Id: 3147470-1-BLK LCS Sample Id: 3147470-1-BKS LCSD Sample Id: 3147470-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	992	99	1010	101	80-120	2	10	mg/L	01.12.2021 10:16	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147722 Matrix: Water
MB Sample Id: 3147722-1-BLK LCS Sample Id: 3147722-1-BKS LCSD Sample Id: 3147722-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	967	97	966	97	80-120	0	10	mg/L	01.13.2021 16:00	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147470 Matrix: Water
Parent Sample Id: 684283-021 MD Sample Id: 684283-021 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	3370	3740	10	10	mg/L	01.12.2021 10:16	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147470 Matrix: Ground Water
Parent Sample Id: 684389-004 MD Sample Id: 684389-004 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	8640	8600	0	10	mg/L	01.13.2021 14:30	

Analytical Method: **TDS by SM2540C**
Seq Number: 3147722 Matrix: Ground Water
Parent Sample Id: 684389-014 MD Sample Id: 684389-014 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	10500	10500	0	10	mg/L	01.13.2021 16:00	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 604389

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Page 1 of 2

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007	Email:	Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.2/4.0	Thermometer ID	IR-8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No ~~N/A~~	Correction Factor:	+0.8
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS	Sample Comments
43-K-1-MW-W-211201	GW	01/12/21	1310	-	1	X	X	
44-I-1-MW-W-211201	GW	01/12/21	1120	-	1	X	X	
44-J-1-MW-W-211201	GW	01/12/21	1055	-	1	X	X	
44-J-2-MW-W-211201	GW	01/12/21	1040	-	1	X	X	
44-J-3-MW-W-211201	GW	01/12/21	1105	-	1	X	X	
44-J-4-MW-W-211201	GW	01/12/21	1110	-	1	X	X	
44-J-5-MW-W-211201	GW	01/12/21	1100	-	1	X	X	
45-E-1-MW-W-211201	GW	01/12/21	1145	-	1	X	X	
45-E-2-MW-W-211201	GW	01/12/21	1140	-	1	X	X	
45-E-2-MW-WD-211201	GW	01/12/21	1140	-	1	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/12/21	2		
3			4		
5		1518	6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

Work Order No: 604389

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Project Manager:	Nick Casten	Bill to: (if different)	Gina Blair- Apinvoices-340@ghd.com
Company Name:	GHD	Company Name:	GHD Services Inc.- 340
Address:	2135 S. Loop 250 West	Address:	2055 Niagara Falls Blvd.
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Niagara Falls, NY. 14304
Phone:	225-292-9007 Email:		Nick.Casten@ghd.com & Christopher.Knight@ghd.com & Brittany.White@ghd.com & edds@ghd.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Dollarhide	Turn Around	
Project Number:	55270	Routine	☒
P.O. Number:	34032659	Rush:	
Sampler's Name:	Matthew Laughlin	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.5/4.0	Thermometer ID	
Received Intact:	(Yes) No	TR-8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.5
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TDS	Sample Comments
45-E-3-MW-W-211201	GW	01/12/21	1305	-	1	X	X	
45-F-1-MW-W-211201	GW	01/12/21	1205	-	1	X	X	
45-FF-MW-W-211201	GW	01/12/21	1155	-	1	X	X	
58-B-1-MW-W-211201	GW	01/12/21	1245	-	1	X	X	
58-B-2-MW-W-211201	GW	01/12/21	1250	-	1	X	X	
MW-8-W-211201	GW	01/12/21	1225	-	1	X	X	
MW-9-W-211201	GW	01/12/21	1235	-	1	X	X	
DHU-FWS-W-211201	GW	01/12/21	1220	-	1	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

~~Circle Method(s) and Metal(s) to be analyzed~~ **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471**: Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1	1/12/21	2		
3			4		
5		1515	6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.12.2021 03.18.00 PM

Work Order #: 684389

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

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

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

Analyst: JKR PH Device/Lot#: 10BDH1991

Checklist completed by: Brianna Teel Date: 01.12.2021

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 01.16.2021

Debbie Simmons

Appendix C

Historical Groundwater Analytical Data

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		300	1,000
Monitor Wells			
43-K-1-MW			
	2/28/2007	**6,200**	**11,400**
	7/26/2007	**7,250**	**13,500**
	1/22/2008	**7,360**	**12,500**
	7/7/2008	**7,460**	**14,300**
	1/28/2009	**8,210**	**14,500**
	8/26/2009	**9,140**	**16,700**
	2/19/2010	**7,560**	**15,000**
	8/18/2010	**10,600**	**17,900**
	2/15/2011	**11,900**	**15,400**
	8/4/2011	**11,600**	**19,800**
	2/3/2012	**9,560**	**19,900**
	7/17/2015	**8,870**	**16,700**
	1/29/2016	NS	NS
	7/20/2016	**8,470**	**13,800**
	1/11/2017	**8,360**	**15,400**
	4/10/2017	NS	NS
	7/14/2017	**8,550**	**14,000**
	1/12/2018	**8,020**	**10,500**
	7/5/2018	**7,840**	**12,700**
	1/7/2019	**7,130**	**9,640**
	7/17/2019	**7,050**	**11,000**
	1/23/2020	**6,570**	**11,300**
	7/13/2020	**7,440**	**10,700**
	1/12/2021	**5,620**	**10,200**
44-I-1-MW			
	01/06	**1,909**	**3,728**
	04/06	**1,349**	**2,823**
	6/13/2006	**1,300**	**2,930**
	9/13/2006	**1,340**	**2,620**
	12/8/2006	**1,370**	**3,010**
	2/28/2007	**1,310**	**2,840**
	7/30/2007	**1,440**	**3,010**
	1/22/2008	**1,630**	**2,730**
	7/7/2008	**1,480**	**2,910**
	1/29/2009	**1,510**	**2,870**
	8/27/2009	**1,500**	**2,850**
	2/18/2010	**1,140**	**2,800**
	8/19/2010	**1,610**	**2,840**
	2/15/2011	**1,970**	**2,850**
	8/4/2011	**1,770**	**3,060**
	2/2/2012	**1,550**	**3,470**
	1/29/2013	**1,850**	**3,300**
	7/30/2013	**1,640**	**3,550**
	1/15/2014	**1,860**	**3,730**
	7/16/2014	**2,100**	**5,180**
	1/14/2015	**2,000**	**4,690**
	1/28/2016	**2,430**	**3,500**
	7/20/2016	**2,620**	**6,220**
	1/12/2017	**3,290**	**6,250**
	4/10/2017	NS	NS
	7/14/2017	**2,750**	**6,700**
	1/12/2018	**2,940**	**5,030**
	7/5/2018	**3,170**	**5,450**
	1/9/2019	**3,320**	**4,580**
	7/17/2019	**3,400**	**5,510**
	1/21/2020	**3,540**	**6,040**
	7/13/2020	**3,660**	**5,840**
	1/12/2021	**3,540**	**6,240**

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
44-J-1-MW			
	01/06	**1,382**	**2,835**
	03/06	**1,551**	**3,139**
	6/13/2006	**1,550**	**3,570**
	9/13/2006	**1,910**	**3,270**
	12/8/2006	**1,810**	**3,090**
	2/28/2007	**1,600**	**3,530**
	7/30/2007	**1,830**	**3,480**
	1/22/2008	**2,090**	**3,390**
	7/7/2008	**1,960**	**3,780**
	1/29/2009	**1,870**	**4,070**
	8/28/2009	**2,480**	**4,050**
	2/19/2010	**1,850**	**4,480**
	8/19/2010	**2,600**	**4,440**
	2/15/2011	**2,630**	**4,960**
	8/4/2011	**2,890**	**5,740**
	2/2/2012	**2,740**	**5,900**
	1/28/2016	NS	NS
	7/20/2016	**2,440**	**5,980**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/14/2017	**3,650**	**8,630**
	1/12/2018	**3,410**	**6,190**
	7/5/2018	**4,300**	**6,910**
	1/9/2019	**4,850**	**6,190**
	7/17/2019	**5,140**	**7,020**
	1/21/2020	**5,020**	**8,150**
	7/13/2020	**4,770**	**7,880**
	1/12/2021	**3,730**	**6,700**
44-J-2-MW			
	01/06	**1,380**	**2,870**
	03/06	**1,911**	**3,745**
	6/13/2006	**1,760**	**3,910**
	9/13/2006	**2,230**	**3,790**
	12/8/2006	**2,270**	**3,660**
	2/28/2007	**1,820**	**3,770**
	7/30/2007	**2,090**	**4,050**
	1/22/2008	**2,040**	**3,800**
	7/7/2008	**2,130**	**4,290**
	1/29/2009	**2,260**	**4,800**
	8/28/2009	**2,820**	**5,030**
	2/18/2010	**2,280**	**5,840**
	8/20/2010	**2,930**	**5,900**
	2/15/2011	**3,000**	**5,780**
	8/5/2011	**3,090**	**13,200**
	2/2/2012	**3,200**	**7,600**
	1/28/2016	NS	NS
	7/20/2016	**3,990**	**8,680**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/14/2017	**4,160**	**10,000**
	1/12/2018	**4,560**	**7,820**
	7/5/2018	**5,050**	**8,000**
	1/9/2019	**4,930**	**7,020**
	7/17/2019	**5,170**	**7,870**
	1/21/2020	**3,830**	**6,420**
	7/13/2020	**5,120**	**8,210**
	1/12/2021	**4,890**	**8,640**

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
44-J-3-MW			
	9/13/2006	**2,580**	**4,850**
	12/8/2006	**2,690**	**4,790**
	8/28/2009	**3,330**	**5,820**
	2/18/2010	**2,580**	**4,980**
	8/20/2010	**3,430**	**5,940**
	2/15/2011	**3,660**	**6,340**
	8/2/2011	**3,090**	**5,970**
	2/2/2012	**2,810**	**5,640**
	1/28/2016	NS	NS
	7/20/2016	**3,630**	**7,810**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/20/2017	**3,960**	**9,150**
	1/12/2018	**4,800**	**8,420**
	7/5/2018	**5,290**	**9,230**
	1/9/2019	**4,300**	**6,330**
	7/17/2019	**5,340**	**8,680**
	1/21/2020	**4,720**	**7,720**
	7/13/2020	**4,920**	**8,080**
	1/12/2021	**4,870**	**8,630**
44-J-4-MW			
	9/13/2006	**1,820**	**3,620**
	12/8/2006	**2,220**	**3,880**
	8/27/2009	**2,090**	**3,810**
	2/18/2010	**1,730**	**4,160**
	8/20/2010	**2,300**	**4,500**
	2/15/2011	**2,400**	**4,500**
	8/2/2011	**2,510**	**4,300**
	2/3/2012	**2,160**	**5,150**
	1/28/2016	NS	NS
	7/20/2016	**3,080**	**6,110**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/20/2017	**2,750**	**6,260**
	1/12/2018	**3,660**	**7,250**
	7/5/2018	**4,520**	**7,430**
	1/9/2019	**4,470**	**6,130**
	7/17/2019	**4,240**	**6,850**
	1/21/2020	**6,120**	**10,500**
	7/13/2020	**4,450**	**8,020**
	1/12/2021	**3,930**	**7,070**
44-J-5-MW			
	9/13/2006	**1,740**	**3,360**
	12/8/2006	**1,570**	**3,260**
	8/27/2009	**1,650**	**3,870**
	2/19/2010	**1,660**	**3,940**
	8/20/2010	**2,150**	**4,260**
	2/15/2011	**2,530**	**4,030**
	8/4/2011	**2,430**	**4,320**
	2/2/2012	**2,260**	**4,920**
	1/28/2016	NS	NS
	7/20/2016	**2,710**	**5,470**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/20/2017	**2,930**	**6,780**
	1/12/2018	**3,500**	**6,230**
	7/5/2018	**4,060**	**6,600**
	1/9/2019	**3,970**	**5,690**
	7/17/2019	**4,200**	**6,810**
	1/21/2020	**4,210**	**6,780**
	7/13/2020	**4,190**	**6,690**
	1/12/2021	**4,140**	**7,520**

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
45-E-1-MW			
	01/06	**994**	**1,795**
	03/06	**1,686**	**2,951**
	6/14/2006	**2,580**	**5,290**
	9/12/2006	**1,990**	**4,110**
	12/7/2006	**3,740**	**7,960**
	2/28/2007	**3,650**	**8,130**
	7/30/2007	**3,770**	**9,480**
	1/22/2008	**3,850**	**6,250**
	7/7/2008	**3,770**	**7,140**
	1/28/2009	**3,810**	**8,230**
	8/27/2009	**3,710**	**6,780**
	2/18/2010	**3,150**	**6,720**
	8/17/2010	**4,090**	**6,520**
	2/15/2011	**4,150**	**6,800**
	8/2/2011	**1,960**	**8,390**
	2/2/2012	**3,520**	**9,160**
	1/28/2016	NS	NS
	7/20/2016	**2,690**	**6,540**
	1/12/2017	**2,860**	**3,340**
	4/10/2017	NS	NS
	7/20/2017	**2,580**	**5,020**
	1/12/2018	**2,300**	**4,650**
	7/5/2018	**2,530**	**4,220**
	1/9/2019	**2,680**	**3,650**
	7/17/2019	**3,360**	**4,820**
	1/21/2020	**1,050**	**1,970**
	7/13/2020	**3,100**	**5,540**
	1/12/2021	**2,490**	**4,680**
45-E-2-MW			
	01/06	98	601
	03/06	76	600
	6/14/2006	85	576
	9/12/2006	81	529
	12/7/2006	82	560
	2/28/2007	**1,170**	**2,210**
	7/30/2007	**1,260**	**2,290**
	1/22/2008	**1,240**	**2,100**
	7/7/2008	**1,310**	**2,300**
	1/28/2009	**1,280**	**2,540**
	8/26/2009	**322**	880
	2/18/2010	**460**	**1,160**
	8/18/2010	144	612
	2/15/2011	124	629
	8/2/2011	**1,450**	**3,290**
	2/2/2012	**738**	**1,620**
	1/28/2016	NS	NS
	7/20/2016	170	676
	1/12/2017	**2,370**	**4,320**
	4/10/2017	NS	NS
	7/20/2017	**1,720**	**3,780**
	1/12/2018	**718**	**3,050**
	7/5/2018	**1,790**	**3,130**
	1/9/2019	**1,660**	**3,040**
	7/17/2019	**1,830**	**2,880**
	1/21/2020	**1,660**	**3,060**
	7/13/2020	**1,750**	**3,150**
	1/12/2021	**1,670**	**3,080**
DUP	1/12/2021	**1,660**	**3,130**

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
45-E-3-MW			
	2/28/2007	**3,360**	**6,800**
	7/26/2007	**3,780**	**9,560**
	1/22/2008	**3,660**	**6,030**
	7/7/2008	**3,590**	**7,750**
	1/28/2009	**3,820**	**8,410**
	8/26/2009	**3,520**	**6,870**
	2/18/2010	**3,270**	**7,990**
	8/18/2010	**4,060**	**6,590**
	2/15/2011	**4,320**	**6,820**
	8/2/2011	**1,960**	**8,490**
	2/3/2012	**3,920**	**8,480**
	1/28/2016	NS	NS
	7/20/2016	**2,870**	**6,790**
	1/11/2017	**2,920**	**6,030**
	4/10/2017	NS	NS
	7/20/2017	**2,870**	**5,620**
	1/12/2018	**2,990**	**4,940**
	7/5/2018	**3,360**	**5,750**
	1/9/2019	**3,760**	**5,240**
	7/17/2019	**4,010**	**6,440**
	1/23/2020	**4,260**	**6,880**
	7/13/2020	**5,690**	**8,480**
	1/12/2021	**4,260**	**7,790**
45-F-1-MW			
	01/06	**619**	**1,270**
	03/06	**714**	**1,394**
	6/13/2006	**1,500**	**3,620**
	9/12/2006	**983**	**1,650**
	12/8/2006	**1,300**	**2,840**
	2/28/2007	**1,430**	**3,160**
	7/30/2007	**1,550**	**2,610**
	1/22/2008	**1,530**	**2,400**
	7/7/2008	**1,380**	**2,610**
	1/29/2009	**1,420**	**2,450**
	8/27/2009	**1,380**	**2,140**
	2/18/2010	**655**	**1,980**
	8/18/2010	**1,160**	**1,960**
	2/15/2011	**1,020**	**1,690**
	8/2/2011	**1,270**	**2,650**
	2/3/2012	**1,090**	**2,500**
	1/28/2016	NS	NS
	7/20/2016	**632**	**1,760**
	1/12/2017	**1,010**	**1,900**
	4/10/2017	NS	NS
	7/20/2017	**751**	**1,700**
	1/12/2018	**896**	**1,990**
	7/5/2018	**923**	**1,840**
	1/9/2019	**901**	**1,840**
	7/17/2019	**1,060**	**1,770**
	1/21/2020	**712**	**1,270**
	7/13/2020	**1,130**	**1,960**
	1/12/2021	**991**	**1,770**

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
45-FF-MW			
	01/06	**613**	**1,277**
	03/06	**3,090**	**5,086**
	6/13/2006	**3,870**	**11,500**
	9/12/2006	**4,610**	**7,280**
	12/7/2006	**4,910**	**10,600**
	2/28/2007	**5,060**	**8,960**
	2/28/2007	**4,890**	**11,100**
	7/30/2007	**5,020**	**8,780**
	1/22/2008	**5,160**	**9,100**
	7/7/2008	**5,220**	**9,870**
	1/28/2009	**4,900**	**8,540**
	8/27/2009	**5,760**	**9,120**
	2/18/2010	**3,210**	**7,340**
	8/18/2010	**5,830**	**9,360**
	2/15/2011	**6,000**	**10,200**
	8/4/2011	**5,510**	**12,100**
	2/2/2012	**4,360**	**9,680**
	1/28/2016	NS	NS
	7/20/2016	**3,990**	**9,940**
	1/12/2017	**4,800**	**11,200**
	4/10/2017	NS	NS
	7/20/2017	**4,170**	**8,030**
	1/12/2018	**4,820**	**8,280**
	7/5/2018	**5,310**	**9,090**
	1/9/2019	**5,080**	**6,690**
	7/17/2019	**6,060**	**7,320**
	1/21/2020	**4,320**	**7,510**
	7/13/2020	**4,120**	**6,850**
	1/12/2021	**3,770**	**6,450**
58-B-1-MW			
	01/06	**836**	**1,624**
	3/6/2020	**1,874**	**3,138**
	6/14/2006	**976**	**2,310**
	9/12/2006	**3,440**	**5,290**
	12/7/2006	**3,230**	**7,600**
	2/28/2007	**3,350**	**7,370**
	7/26/2007	**4,680**	**8,890**
	1/22/2008	**3,220**	**5,110**
	7/7/2008	**2,980**	**6,110**
	1/28/2009	**3,150**	**6,330**
	8/26/2009	**3,320**	**5,820**
	2/18/2010	**2,850**	**6,710**
	8/19/2010	**4,120**	**9,970**
	2/15/2011	**4,180**	**6,850**
	8/2/2011	**5,240**	**11,700**
	2/6/2012	**5,510**	**10,000**
	1/28/2016	NS	NS
	7/22/2016	**3,550**	**8,460**
	1/13/2017	**7,510**	**9,410**
	4/10/2017	NS	NS
	7/20/2017	**5,480**	**9,230**
	1/12/2018	**5,250**	**8,620**
	7/5/2018	**6,440**	**10,000**
	1/7/2019	**5,240**	**8,120**
	7/15/2019	**6,180**	**9,750**
	1/21/2020	**6,590**	**10,200**
	7/14/2020	**7,160**	**11,400**
	1/12/2021	**6,230**	**10,500**

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		300	1,000
58-B-2-MW			
	01/06	1,103	2,024
	03/06	650	1,329
	6/14/2006	4,510	8,700
	9/12/2006	8,220	19,000
	12/7/2006	4,700	10,700
	2/28/2007	5,900	10,800
	7/26/2007	6,270	12,200
	1/22/2008	6,200	11,300
	7/7/2008	5,830	11,600
	1/28/2009	5,260	10,600
	8/26/2009	6,260	10,800
	2/18/2010	4,870	9,680
	8/19/2010	6,640	10,200
	2/15/2011	4,100	7,390
	8/2/2011	1,410	13,600
	2/6/2012	5,480	13,600
	1/28/2016	3,550	7,440
	7/22/2016	2,740	6,130
	1/13/2017	4,190	8,700
	4/10/2017	NS	NS
	7/20/2017	3,340	5,910
	1/12/2018	3,470	5,860
	7/5/2018	3,900	6,410
	1/7/2019	4,190	5,470
	7/15/2019	3,850	6,310
	1/21/2020	3,770	6,280
	7/14/2020	4,040	7,190
	1/12/2021	3,560	1,240
58-B-3-MW			
	2/28/2007	607	2,150
	7/26/2007	1,200	2,340
	1/22/2008	1,250	2,010
	7/7/2008	1,140	2,480
	1/28/2009	1,300	2,400
	8/26/2009	1,370	2,320
	2/19/2010	1,070	2,570
	8/19/2010	1,450	2,340
	2/15/2011	1,680	2,500
	8/2/2011	1,450	2,920
	2/3/2012	1,330	2,660
	1/29/2013	1,360	2,370
	7/30/2013	1,230	2,540
	1/15/2014	1,250	2,920
	7/16/2014	1,450	4,360
	1/14/2015	312	938
	7/15/2015	715	1,770
	1/28/2016	688	1,660
	7/22/2016	570	1,290
	1/10/2017	683	1,830
	4/10/2017	NS	NS
	7/20/2017	666	1,440
	1/12/2018	791	1,290
	7/6/2018	976	1,580
	1/7/2019	900	2,070
	7/12/2019	1,470	2,520
	1/23/2020	1,570	2,710
	7/14/2020	1,640	3,160
	1/8/2021	1,630	2,800

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-2			
	8/10/2015	204	**1,950**
	1/28/2016	NS	NS
	7/21/2016	NS	NS
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/19/2017	NS	NS
	10/5/2017	NS	NS
	1/12/2018	NS	NS
	4/5/2018	NS	NS
	7/6/2018	NS	NS
	10/4/2018	NS	NS
	1/8/2019	NS	NS
	4/10/2019	NS	NS
	7/16/2019	NS	NS
	10/17/2019	NS	NS
	1/22/2020	NS	NS
	4/13/2020	NS	NS
	7/15/2020	NS	NS
	7/13/2020	NS	NS
	1/11/2021	NS	NS
MW-3			
	8/10/2015	249	**1,100**
	1/27/2016	**484**	**1,070**
	7/21/2016	**486**	**1,430**
	1/11/2017	**564**	**1,410**
	4/10/2017	**605**	**1,960**
	7/19/2017	**572**	**1,400**
	10/5/2017	**569**	**1,520**
	1/12/2018	**566**	**1,410**
	4/5/2018	**589**	**1,300**
	7/3/2018	**593**	**1,310**
	10/4/2018	**626**	**1,310**
	1/8/2019	194	619
	4/9/2019	**636**	**1,370**
	7/16/2019	**475**	**1,320**
	10/17/2019	**502**	**1,350**
	1/22/2020	**696**	**2,390**
	4/13/2020	**603**	**1,400**
	7/15/2020	**648**	**1,550**
	10/12/2020	**671**	**1,380**
	1/11/2021	**605**	**1,470**
	4/7/2021	NS	NS
MW-4			
	8/10/2015	240	**1,850**
	1/27/2016	250	941
	7/21/2016	**355**	**2,260**
	1/11/2017	**353**	**1,260**
	4/10/2017	NS	NS
	7/20/2017	**325**	1,000
	10/5/2017	**347**	**1,010**
	1/12/2018	**345**	968
	4/6/2018	**350**	413
	7/3/2018	**338**	831
	10/4/2018	**350**	883
	1/8/2019	258	426
	4/9/2019	**377**	877
	7/16/2019	269	889
	10/17/2019	**325**	902
	1/22/2020	**375**	578
	4/13/2020	**323**	939
	7/15/2020	**352**	**1,050**
	10/12/2020	**343**	903
	1/11/2021	**327**	911
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-5			
	8/10/2015	**837**	**2,960**
	1/28/2016	**459**	**2,130**
	7/21/2016	**397**	**1,690**
	1/11/2017	**364**	**1,400**
	4/10/2017	**346**	**1,560**
	7/19/2017	**309**	**1,170**
	10/5/2017	**302**	**1,040**
	1/12/2018	293	**1,130**
	4/5/2018	289	**1,140**
	7/3/2018	274	**1,020**
	10/4/2018	278	**1,050**
	1/8/2019	244	**1,050**
	4/9/2019	300	257
	7/16/2019	219	**1,120**
	10/17/2019	257	1,000
	1/22/2020	262	964
	4/13/2020	265	986
	7/15/2020	267	**1,090**
	10/12/2020	267	974
	1/11/2021	252	975
	4/7/2021	NS	NS
MW-6			
	8/10/2015	**578**	**2,180**
	1/28/2016	**484**	**2,090**
	7/21/2016	**450**	**1,590**
	1/11/2017	**441**	**1,330**
	4/10/2017	**468**	**1,760**
	7/18/2017	**439**	**1,650**
	10/5/2017	**407**	**1,530**
	1/12/2018	**408**	**1,490**
	4/5/2018	**411**	**1,430**
	7/3/2018	**402**	**1,340**
	10/4/2018	**404**	**1,450**
	1/8/2019	**372**	**1,510**
	4/9/2019	**418**	**1,500**
	7/15/2019	**395**	**1,470**
	10/17/2019	**383**	**1,490**
	1/23/2020	**488**	**1,550**
	4/14/2020	**387**	**1,530**
	7/15/2020	**417**	**1,590**
	10/12/220	**423**	**1,440**
	1/11/2021	**380**	**1,580**
	4/7/2021	NS	NS
MW-7			
	8/10/2015	**772**	**3,230**
	1/28/2016	260	**2,620**
	7/21/2016	**524/508**	**2,510/2,410**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/19/2017	NS	NS
	10/5/2017	NS	NS
	1/12/2018	NS	NS
	4/5/2018	NS	NS
	7/3/2018	NS	NS
	10/4/2018	NS	NS
	1/8/2019	NS	NS
	4/10/2019	NS	NS
	7/15/2019	NS	NS
	10/17/2019	NS	NS
	1/23/2020	NS	NS
	4/14/2020	NS	NS
	7/15/2020	NS	NS
	10/12/2020	NS	NS
	1/12/2021	NS	NS
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
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Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-8			
	8/10/2015	**711**	**2,430**
	1/28/2016	**763**	**2,310**
	7/21/2016	**758**	**2,140**
	1/13/2017	**985**	**2,410**
	4/7/2017	**933**	**2,120**
	7/17/2017	**845**	**2,280**
	10/4/2017	**803**	**2,210**
	1/12/2018	**813**	**2,250**
	4/5/2018	**839**	**2,300**
	7/5/2018	**868**	**2,350**
	10/3/2018	**888**	**2,490**
	1/8/2019	**852**	**2,160**
	4/5/2019	**1,060**	**2,460**
	7/15/2019	**884**	**2,390**
	10/16/2019	**919**	**2,400**
	1/21/2020	**967**	**2,540**
	4/14/2020	**750**	**2,370**
	7/14/2020	**1,010**	**2,460**
	10/12/2020	**1,040**	**2,480**
	1/12/2021	**994**	**2,420**
	4/7/2021	NS	NS
MW-9			
	8/10/2015	**1,650**	**3,390**
	1/28/2016	**2,160**	**4,410**
	7/21/2016	**2,140**	**6,790**
	1/13/2017	**3,520**	**4,540**
	4/7/2017	**3,070**	**6,760**
	7/17/2017	**2,830**	**4,930**
	10/4/2017	**2,230**	**4,730**
	1/12/2018	**2,540**	**4,380**
	4/5/2018	**2,930**	**4,690**
	7/5/2018	**2,880**	**4,250**
	10/3/2018	**2,910**	**4,270**
	1/7/2019	**2,620**	807
	4/5/2019	**1,200**	**4,230**
	7/15/2019	**2,620**	**4,240**
	10/16/2019	**2,520**	**4,610**
	1/21/2020	**2,740**	**4,010**
	4/14/2020	**1,800**	**4,100**
	7/14/2020	**2,700**	**5,070**
	10/12/2020	**2,710**	**4,270**
	1/12/2021	**2,670**	**4,760**
	4/7/2021	NS	NS
MW-10			
	8/10/2015	**3,480**	**7,980**
	1/28/2016	**5,320**	**9,850**
	7/20/2016	**5,920**	**12,400**
	1/12/2017	**6,360**	**10,500**
	4/7/2017	**5,930**	**12,700**
	7/18/2017	**5,320**	**9,720**
	10/5/2017	**5,190**	**8,560**
	1/12/2018	**5,350**	**9,650**
	4/5/2018	**5,470**	**8,630**
	7/3/2018	**5,340**	**11,000**
	10/3/2018	**5,880**	**8,570**
	1/8/2019	**5,130**	**7,050**
	4/5/2019	**5,760**	**8,100**
	7/15/2019	**4,860**	**8,210**
	10/16/2019	**4,980**	**8,520**
	1/23/2020	**5,230**	**8,580**
	4/14/2020	**3,260**	**8,730**
	7/15/2020	**5,130**	**9,450**
	10/12/2020	**5,270**	**8,250**
	1/11/2021	**3,880**	**8,180**
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
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Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-11			
	8/10/2015	**458**	**3,260**
	1/28/2016	**5,280**	**5,720**
	7/21/2016	**6,830**	**16,100**
	1/11/2017	**7,310**	**18,800**
	4/10/2017	**7,760**	**17,100**
	7/18/2017	**7,620**	**12,700**
	10/5/2017	**7,110**	**12,600**
	1/12/2018	**8,120**	**12,700**
	4/5/2018	**7,990**	**11,000**
	7/3/2018	**7,940**	**11,800**
	10/4/2018	**8,310**	**12,000**
	1/8/2019	**8,240**	**9,730**
	4/9/2019	**7,840**	**11,700**
	7/15/2019	**7,680**	**11,800**
	10/17/2019	**7,590**	**12,400**
	1/23/2020	**7,760**	**12,300**
	4/14/2020	**7,620**	**13,400**
	7/15/2020	**6,240**	**12,000**
	10/12/2020	68	**11,800**
	1/11/2021	**7,290**	**11,900**
	4/7/2021	NS	NS
MW-12			
	8/10/2015	**7,680**	**20,500**
	1/28/2016	**12,800**	**24,400**
	7/20/2016	**12,000**	**27,500**
	1/11/2017	**16,400**	**24,100**
	4/7/2017	**13,900**	**28,900**
	7/18/2017	**13,600**	**23,000**
	10/5/2017	**14,000**	**23,000**
	1/12/2018	**13,100**	**21,400**
	4/5/2018	**13,300**	**19,400**
	7/3/2018	**13,200**	**20,200**
	10/4/2018	**15,000**	**24,400**
	1/8/2019	**13,900**	**14,000**
	4/10/2019	**14,100**	**21,700**
	7/15/2019	**11,000**	**22,600**
	10/16/2019	**12,600**	**23,400**
	1/23/2020	**12,700**	**20,600**
	4/14/2020	**13,600**	**23,400**
	7/15/2020	**12,700**	**22,700**
	10/12/2020	**13,600**	**24,700**
	1/11/2021	**13,300**	**22,300**
	4/7/2021	NS	NS
MW-13			
	8/10/2015	**1,740**	**4,100**
	1/28/2016	**1,850**	**4,110**
	7/21/2016	**1,650**	**5,300**
	1/11/2017	**1,270**	**1,660**
	4/10/2017	**1,890**	**4,760**
	7/19/2017	**1,730**	**4,010**
	10/5/2017	**1,910**	**5,260**
	1/12/2018	**1,750**	**3,920**
	4/6/2018	**1,750**	**3,920**
	7/3/2018	**2,280**	**4,560**
	10/4/2018	**2,200**	**3,900**
	1/8/2019	**1,880**	**3,810**
	4/10/2019	**2,020**	**4,160**
	7/16/2019	**1,400**	**4,440**
	10/17/2019	**1,960**	**3,720**
	1/22/2020	**1,810**	**5,110**
	4/13/2020	**1,580**	**4,420**
	7/15/2020	**1,750**	**4,350**
	10/12/2020	**1,820**	**4,140**
	1/11/2021	**1,270**	**4,180**
DUP	1/11/2021	**1,600**	**4,260**
	4/7/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-14			
	8/11/2015	**989**	**3,040**
	1/27/2016	**1,420**	**2,560**
	7/21/2016	**1,480**	**3,800**
	1/11/2017	**1,470**	**2,890**
	4/10/2017	**1,530**	**4,400**
	7/19/2017	**1,500**	**3,330**
	10/5/2017	**1,510**	**3,460**
	1/12/2018	**1,590**	**2,910**
	4/6/2018	**1,720**	**1,270**
	7/3/2018	**1,540**	**2,660**
	10/4/2018	**1,690**	**2,620**
	1/8/2019	**1,630**	**2,890**
	4/9/2019	**1,610**	**2,940**
	7/16/2019	**1,110**	**3,120**
	10/17/2019	**1,670**	**2,940**
	1/22/2020	**1,880**	**3,290**
	4/13/2020	**1,130**	**3,130**
	7/15/2020	**1,760**	**3,640**
	10/12/2020	**1,810**	**3,270**
	1/11/2021	**1,260**	**3,210**
	4/7/2021	NS	NS
MW-15			
	8/11/2015	**600**	**1,730**
	1/28/2016	**617**	**1,180**
	7/21/2016	**554**	**1,370**
	1/11/2017	**710**	**1,640**
	4/10/2017	**785**	**2,030**
	7/19/2017	**652**	**1,220**
	10/5/2017	**831**	**1,690**
	1/12/2018	**873**	**1,770**
	4/6/2018	**877**	**1,900**
	7/3/2018	**914**	**1,650**
	10/4/2018	**1,030**	**1,740**
	1/8/2019	**995**	**2,290**
	4/10/2019	**1,110**	**1,740**
	7/16/2019	**1,300**	**1,800**
	10/17/2019	**1,010**	**1,850**
	1/22/2020	**1,290**	**2,180**
	4/13/2020	**1,010**	**1,960**
	7/15/2020	**1,110**	**2,330**
	10/12/2020	**1,110**	**2,010**
	1/11/2021	**902**	**1,880**
	4/7/2021	NS	NS
MW-16			
	8/11/2015	**435**	**1,410**
	1/28/2016	**323**	**1,020**
	7/21/2016	195	776
	1/11/2017	**472**	**1,180**
	4/10/2017	**396**	**1,400**
	7/19/2017	**444**	**1,100**
	10/5/2017	**426**	**1,210**
	1/12/2018	**364**	**1,100**
	4/6/2018	**432**	**1,310**
	7/3/2018	**430**	**1,160**
	10/4/2018	**474**	**1,210**
	1/8/2019	**468**	**1,260**
	4/10/2019	**508**	**1,240**
	7/16/2019	**301**	**1,060**
	10/17/2019	**393**	**1,110**
	1/22/2020	**525**	**1,270**
	4/13/2020	**310**	**1,030**
	7/15/2020	**505**	**1,390**
	10/12/2020	**411**	**1,060**
	1/11/2021	**403**	**1,050**
	4/7/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-17			
	8/12/2015	**5,800**	**13,400**
	1/28/2016	**4,400**	823
	7/21/2016	**3,370**	**7,900**
	1/11/2017	**9,760**	**16,200**
	4/10/2017	**9,620**	**20,400**
	7/19/2017	**8,160**	**14,400**
	10/6/2017	**11,400**	**18,800**
	1/12/2018	**10,100**	**15,300**
	4/6/2018	**9,590**	**14,800**
	7/3/2018	**8,570**	**15,000**
	10/4/2018	**11,300**	**17,700**
	1/8/2019	**10,100**	**11,100**
	4/10/2019	**9,440**	**14,500**
	7/16/2019	**7,880**	**13,100**
	10/17/2019	**9,620**	**15,300**
	1/22/2020	**9,410**	**15,100**
	4/13/2020	**7,870**	**13,800**
	7/15/2020	**7,450**	**15,000**
	10/12/2020	**8,280**	**13,500**
	1/11/2021	**7,680**	**4,200**
	4/7/2021	NS	NS
MW-18			
	8/12/2015	**13,400**	**26,600**
	1/28/2016	**13,900**	**25,300**
	7/20/2016	**8,000**	**18,900**
	1/12/2017	**14,200**	**33,700**
	4/7/2017	**19,100**	**37,800**
	7/18/2017	**13,900**	**23,500**
	10/6/2017	**19,000**	**52,900**
	1/12/2018	**18,800**	**30,300**
	4/5/2018	**20,000**	**30,400**
	7/3/2018	**22,000**	**38,500**
	10/4/2018	**21,100**	**31,600**
	1/8/2019	**17,000**	**19,000**
	4/9/2019	**24,600**	**33,300**
	7/15/2019	**21,000**	**33,100**
	10/16/2019	**19,900**	**37,300**
	1/23/2020	**21,400**	**34,800**
	4/14/2020	**18,500**	**34,000**
	7/15/2020	**21,400**	**36,000**
	10/12/2020	**21,600**	**34,100**
	1/11/2021	**21,000**	**35,800**
	4/7/2021	NS	NS
MW-19			
	8/12/2015	**4,780**	**11,300**
	1/28/2016	**5,130**	**10,100**
	7/20/2016	**5,160**	**10,200**
	1/12/2017	**6,370**	**9,560**
	4/7/2017	**6,000**	**13,600**
	7/18/2017	**5,310**	**9,840**
	10/6/2017	**5,290**	**9,620**
	1/12/2018	**6,160**	**10,300**
	4/5/2018	**6,600**	**9,880**
	7/5/2018	**6,580**	**11,500**
	10/4/2018	**6,980**	**11,600**
	1/8/2019	**6,570**	**9,300**
	4/9/2019	**7,000**	**10,500**
	7/15/2019	**6,860**	**11,000**
	10/16/2019	**7,160**	**12,800**
	1/23/2020	**7,540**	**13,200**
	4/14/2020	**7,170**	**13,300**
	7/15/2020	**7,880**	**13,700**
	10/12/2020	**7,990**	**16,800**
	1/11/2021	**7,350**	**12,500**
	4/7/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-20			
	8/12/2015	**995**	**2,760**
	1/28/2016	**1,200**	**2,390**
	7/20/2016	**1,060**	**2,920**
	1/12/2017	**1,500**	**1,970**
	4/7/2017	**1,200**	**3,300**
	7/18/2017	**1,110**	**2,540**
	10/6/2017	**1,100**	**2,220**
	1/12/2018	**1,130**	**2,410**
	4/5/2018	**1,100**	**2,130**
	7/5/2018	**1,150**	**2,160**
	10/3/2018	**1,340**	**2,490**
	1/8/2019	**1,070**	**2,180**
	4/5/2019	**1,430**	**2,410**
	7/15/2019	**1,270**	**2,330**
	10/16/2019	**1,260**	**2,500**
	1/21/2020	**1,330**	**2,440**
	4/14/2020	**1,140**	**2,970**
	7/13/2020	**1,320**	**2,450**
	10/12/2020	**1,350**	**2,470**
	1/11/2021	**1,130**	**2,460**
	4/7/2021	NS	NS
MW-21			
	7/21/2016	**7,920**	**19,400**
	1/11/2017	**7,360**	**11,800**
	4/10/2017	**6,600**	**17,900**
	7/19/2017	**5,480**	**12,200**
	10/6/2017	**7,210**	**13,500**
	1/12/2018	**6,800**	**10,900**
	4/6/2018	**7,630**	**11,000**
	7/3/2018	**6,860**	**11,100**
	10/4/2018	**7,400**	**11,400**
	1/8/2019	**7,530**	**9,420**
	4/10/2019	**6,970**	**11,000**
	7/16/2019	**6,720**	**11,000**
	10/17/2019	**7,010**	**11,000**
	1/22/2020	**6,900**	**10,300**
	4/13/2020	**6,610**	**10,200**
	7/15/2020	**5,850**	**10,700**
	10/12/2020	**6,840**	**10,900**
	1/11/2021	**3,050**	**10,100**
	4/7/2021	NS	NS
MW-22			
	3/3/2017	**12,100**	**19,000**
	4/10/2017	**14,000**	**33,000**
	7/19/2017	**8,720**	**17,400**
	10/6/2017	**11,400**	**20,200**
	1/12/2018	**10,400**	**16,200**
	4/6/2018	**10,500**	**17,200**
	7/3/2018	**10,300**	**16,300**
	10/4/2018	**14,200**	**18,700**
	1/8/2019	**12,000**	**10,900**
	4/10/2019	**10,900**	**16,200**
	7/16/2019	**11,300**	**18,000**
	10/17/2019	**12,400**	**20,600**
	1/22/2020	**11,700**	**16,800**
	4/13/2020	**11,700**	**19,800**
	7/15/2020	**10,100**	**21,900**
	10/12/2020	**13,000**	**19,900**
	1/11/2021	**11,000**	**17,600**
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-23			
	7/21/2016	**1,430**	**3,050**
	1/11/2017	**2,120**	**4,130**
	4/10/2017	**3,010**	**8,750**
	7/19/2017	**1,680**	**3,550**
	10/6/2017	**4,520**	**7,370**
	1/12/2018	**5,230**	**9,340**
	4/6/2018	**6,830**	**10,100**
	7/3/2018	**4,390**	**6,870**
	10/4/2018	**6,090**	**8,980**
	1/8/2019	**7,910**	**9,780**
	4/10/2019	**6,540**	**10,200**
	7/16/2019	**3,420**	**9,780**
	10/17/2019	**3,840**	**10,200**
	1/22/2020	**7,140**	**10,400**
	4/13/2020	**3,540**	**7,780**
	7/15/2020	**6,060**	**12,600**
	10/12/2020	**5,450**	**8,810**
	1/11/2021	**4,160**	**8,970**
	4/7/2021	NS	NS
MW-24			
	7/20/2016	**3,720**	**8,910**
	1/12/2017	**4,740**	**8,690**
	4/7/2017	**4,520**	**11,200**
	7/18/2017	**3,880**	**8,600**
	10/6/2017	**3,930**	**8,500**
	1/12/2018	**4,060**	**8,170**
	4/5/2018	**3,980**	**7,080**
	7/3/2018	**4,140**	**8,210**
	10/4/2018	**4,850**	**8,870**
	1/8/2019	**3,320**	**1,020**
	4/9/2019	**4,370**	**8,250**
	7/15/2019	**4,180**	**8,860**
	10/16/2019	**4,150**	**8,980**
	1/23/2020	**4,470**	**8,980**
	4/14/2020	**2,770**	**9,190**
	7/15/2020	**4,430**	**9,130**
	10/12/2020	**4,330**	**9,440**
	1/11/2021	**1,680**	**8,690**
	4/7/2021	NS	NS
MW-25			
	7/21/2016	**560**	**1,510**
	1/11/2017	**24,400**	**29,700**
	4/10/2017	**23,100**	**49,600**
	7/18/2017	**18,800**	**32,800**
	10/6/2017	**18,300**	**33,200**
	1/12/2018	**20,900**	**31,400**
	4/5/2018	**22,400**	**32,800**
	7/3/2018	**23,600**	**37,600**
	10/4/2018	**26,500**	**39,000**
	1/8/2019	**23,500**	**29,800**
	4/9/2019	**24,100**	**33,100**
	7/15/2019	**23,200**	**33,200**
	10/17/2019	**20,900**	**24,800**
	1/23/2020	**25,200**	**36,400**
	4/14/2020	**24,200**	**38,500**
	7/15/2020	**26,100**	**37,300**
	10/12/2020	**24,100**	**36,900**
	1/11/2021	**23,900**	**36,600**
	4/7/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-26			
	1/12/2017	**1,220**	**2,840**
	4/7/2017	**1,190**	**3,160**
	7/18/2017	**1,140**	**3,060**
	10/6/2017	**1,120**	**2,570**
	1/12/2018	**1,160**	**2,860**
	4/5/2018	**1,230**	**2,730**
	7/5/2018	**1,210**	**2,810**
	10/4/2018	**1,340**	**2,750**
	1/8/2019	**1,190**	**2,740**
	4/9/2019	**1,340**	**2,830**
	7/15/2019	**1,360**	**2,960**
	10/16/2019	**1,340**	**3,250**
	1/23/2020	**1,460**	**3,220**
	4/14/2020	**1,230**	**3,260**
	7/15/2020	**1,480**	**3,520**
	10/12/2020	**1,500**	**3,320**
	1/11/2021	**1,400**	**3,370**
	4/7/2021	NS	NS
MW-27			
	7/20/2016	**1,340**	**3,080**
	1/11/2017	**2,400**	**4,160**
	4/7/2017	**2,380**	**4,520**
	7/18/2017	**2,110**	**4,150**
	10/6/2017	**2,280**	**4,610**
	1/12/2018	**2,260**	**4,220**
	4/5/2018	**2,400**	**4,250**
	7/3/2018	**2,510**	**4,790**
	10/3/2018	**3,030**	**4,700**
	1/8/2019	**2,420**	**4,110**
	4/5/2019	**2,830**	**4,490**
	7/15/2019	**2,540**	**4,440**
	10/16/2019	**2,490**	**4,160**
	1/21/2020	**2,420**	**4,230**
	4/14/2020	**1,770**	**4,170**
	7/15/2020	**2,950**	**5,120**
	10/12/2020	**2,490**	**4,200**
	1/11/2021	**2,210**	**4,160**
	4/7/2021	NS	NS
MW-28			
	1/10/2017	**917**	**2,520**
	4/7/2017	**1,090**	**2,650**
	7/17/2017	**1,190**	**2,730**
	10/6/2017	**1,240**	**3,270**
	1/12/2018	**1,470**	**1,280**
	4/5/2018	**1,540**	**2,660**
	7/6/2018	**1,610**	**2,540**
	10/3/2018	**1,760**	**3,020**
	1/7/2019	**1,510**	**3,050**
	4/5/2019	**851**	**3,260**
	7/15/2019	**2,180**	**3,490**
	10/16/2019	**2,410**	**3,780**
	1/23/2020	**2,450**	**4,100**
	4/10/2020	**2,400**	**4,080**
	7/14/2020	**3,370**	**6,510**
	10/8/2020	**3,780**	**8,160**
	1/8/2021	**3,940**	**6,840**
	4/7/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-29			
	1/10/2017	**354**	946
	4/7/2017	**386**	**1,160**
	7/17/2017	**393**	**1,060**
	10/6/2017	**374**	**1,100**
	1/12/2018	**397**	601
	4/5/2018	**396**	**1,100**
	7/6/2018	**397**	860
	10/3/2018	**409**	**1,070**
	1/7/2019	**359**	**7,270**
	4/5/2019	**508**	**1,100**
	7/15/2019	**500**	**1,140**
	10/16/2019	**501**	**1,200**
	1/23/2020	**535**	**1,250**
	4/10/2020	**552**	**1,270**
	7/14/2020	**563**	**1,460**
	10/8/2020	**637**	**1,460**
	1/8/2021	**550**	**1,280**
	4/7/2021	NS	NS
MW-30			
	7/19/2017	**2,360**	**4,540**
	10/6/2017	**2,420**	**5,270**
	1/12/2018	**2,350**	**4,160**
	4/6/2018	**2,240**	**1,310**
	7/3/2018	**2,280**	**3,650**
	10/4/2018	**2,550**	**3,820**
	1/8/2019	**2,460**	**3,860**
	4/10/2019	**2,400**	**4,160**
	7/16/2019	**1,500**	**4,200**
	10/17/2019	**2,340**	**3,880**
	1/22/2020	**2,520**	**4,290**
	4/14/2020	**1,300**	**3,960**
	7/15/2020	**2,290**	**4,530**
	10/12/2020	**2,240**	**4,090**
	1/11/2021	**2,100**	**4,050**
	4/7/2021	NS	NS
MW-31			
	7/18/2017	**7,980**	**13,600**
	10/6/2017	**8,540**	**16,600**
	1/12/2018	**10,700**	**16,400**
	4/5/2018	**11,700**	**17,700**
	7/3/2018	**12,100**	**19,800**
	10/4/2018	**12,800**	**19,500**
	1/8/2019	**11,100**	**10,300**
	4/5/2019	**11,800**	**16,200**
	7/15/2019	**10,900**	**16,600**
	10/16/2019	**10,500**	**17,900**
	1/23/2020	**11,700**	**17,100**
	4/14/2020	**9,960**	**17,900**
	7/15/2020	**8,890**	**17,800**
	10/12/2020	**10,200**	**16,700**
	1/11/2021	**9,500**	**17,100**
	4/7/2021	NS	NS
MW-32			
	4/10/2019	**373**	**1,170**
	7/15/2019	**314**	**1,090**
	10/15/2019	271	**1,110**
	1/23/2020	**327**	**1,080**
	4/10/2020	**342**	**1,130**
	7/15/2020	**321**	**1,140**
	10/8/2020	**349**	**1,110**
	1/8/2021	**349**	**1,170**
DUP	1/8/2021	**303**	**1,170**
	4/7/2021	**341**	**1,120**
DUP	4/7/2021	**323**	**1,170**

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
MW-33			
	4/10/2019	183	912
	7/15/2019	153	988
	10/15/2019	156	**1,040**
	1/23/2020	185	**1,010**
	4/10/2020	190	**1,100**
	7/14/2020	196	**1,060**
	10/8/2020	201	**1,090**
	1/8/2021	190	**1,060**
	4/7/2021	185	**1,040**
MW-34			
	4/10/2019	69.9	600
	7/15/2019	64.2	621
	10/15/2019	66.5	604
	1/23/2020	73.3	606
	4/10/2020	69.6	618
	7/14/2020	71.3	613
	10/8/2020	73.3	608
	1/8/2021	70.8	610
	4/7/2021	66.0	619
NM-MW-1			
	12/3/2015	266	**1,540**
	1/28/2016	283	**1,470**
	7/22/2016	294	**1,420**
	1/12/2017	**383**	**1,570**
	4/7/2017	291	**1,510**
	7/13/2017	287	**1,520**
	10/6/2017	271	**1,500**
	1/12/2018	271	933
	4/5/2018	263	**1,400**
	7/6/2018	275	**1,350**
	10/3/2018	279	**1,460**
	1/7/2019	256	**1,370**
	4/4/2019	**330**	**1,400**
	7/11/2019	291	**1,380**
	10/15/2019	281	**1,450**
	1/20/2020	286	**1,390**
	4/9/2020	277	**1,440**
	7/14/2020	293	**1,450**
	10/7/2020	288	**1,450**
	1/7/2021	273	**1,410**
	4/7/2021	NS	NS
NM-MW-2			
	12/3/2015	**640**	**2,620**
	1/28/2016	**658**	**1,920**
	7/22/2016	**638**	858
	1/12/2017	**790**	**1,770**
	4/7/2017	**656**	**1,590**
	7/13/2017	**653**	**1,340**
	10/6/2017	**650**	**1,410**
	1/12/2018	**639**	990
	4/5/2018	**610**	**1,210**
	7/6/2018	**679**	**1,160**
	10/3/2018	**674**	**1,270**
	1/7/2019	**616**	**1,210**
	4/4/2019	**736**	**1,230**
	7/11/2019	**397**	**1,330**
	10/15/2019	**666**	**1,240**
	1/20/2020	**643**	**1,240**
	4/9/2020	**734**	**1,270**
	7/14/2020	**696**	**1,530**
	10/7/2020	**706**	**1,370**
	1/7/2021	**659**	**1,230**
	4/7/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
NM-MW-3			
	12/3/2015	**648**	**3,900**
	1/28/2016	**327**	**1,870**
	7/22/2016	121	524
	1/12/2017	224	581
	4/7/2017	161	564
	7/13/2017	186	592
	10/6/2017	276	626
	1/12/2018	221	501
	4/5/2018	180	601
	7/6/2018	220	625
	10/3/2018	246	708
	1/7/2019	**447**	**1,250**
	4/4/2019	259	653
	7/11/2019	184	581
	10/15/2019	183	596
	1/20/2020	241	649
	4/9/2020	255	721
	7/14/2020	261	811
	10/7/2020	253	731
	1/7/2021	264	680
	4/7/2021	NS	NS
NM-MW-4			
	12/3/2015	**739**	**2,960**
	1/28/2016	22.8	821
	7/22/2016	40.9	444
	1/12/2017	48.7	379
	4/7/2017	35.0	410
	7/13/2017	36.1	422
	10/6/2017	42.0	468
	1/12/2018	39	217
	4/5/2018	34	410
	7/6/2018	40.6	414
	10/3/2018	39.7	411
	1/7/2019	258	**1,240**
	4/4/2019	188	420
	7/11/2019	40.6	423
	10/15/2019	46.2	430
	1/20/2020	44.1	388
	4/9/2020	45.8	513
	7/14/2020	46.9	419
	10/7/2020	47.7	431
	1/7/2021	44.4	435
	4/7/2021	NS	NS
NM-MW-5			
	12/3/2015	NS	NS
	1/28/2016	144	**1,250**
	7/22/2016	129	**1,270**
	1/12/2017	182	**1,320**
	4/7/2017	145	**1,260**
	7/13/2017	147	**1,340**
	10/6/2017	144	**1,090**
	1/12/2018	133	893
	4/5/2018	134	**1,300**
	7/6/2018	140	**1,240**
	10/3/2018	138	**1,290**
	1/7/2019	142	**1,280**
	4/4/2019	175	**1,240**
	7/11/2019	149	**1,290**
	10/15/2019	170	**1,320**
	1/20/2020	152	**1,240**
	4/9/2020	158	**1,310**
	7/14/2020	162	**1,250**
	10/7/2020	155	**1,330**
	1/7/2021	146	**1,260**
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
NM-MW-6			
	12/2/2015	188	**1,240**
	1/28/2016	183	**1,060**
	7/22/2016	121	817
	1/12/2017	168	825
	4/7/2017	143	852
	7/13/2017	138	818
	10/6/2017	132	742
	1/12/2018	137	468
	4/5/2018	127	836
	7/6/2018	134	801
	10/3/2018	138	833
	1/7/2019	113	813
	4/4/2019	161	813
	7/12/2019	143	863
	10/15/2019	139	827
	1/20/2020	145	750
	4/9/2020	145	834
	7/14/2020	152	828
	10/7/2020	147	826
	1/7/2021	142	811
	4/7/2021	NS	NS
NM-MW-7			
	12/3/2015	**696**	**3,200**
	1/28/2016	**1,840**	**3,150**
	7/22/2016	**1,890**	**5,320**
	1/12/2017	**2,390**	**3,770**
	4/7/2017	**2,180**	**4,770**
	7/13/2017	**2,120**	**4,100**
	10/6/2017	**2,070**	**4,200**
	1/12/2018	**2,110**	**2,370**
	4/5/2018	**2,090**	**4,270**
	7/6/2018	**2,330**	**3,780**
	10/3/2018	**2,380**	**4,050**
	1/7/2019	**2,040**	**5,190**
	4/4/2019	**1,940**	**4,160**
	7/11/2019	**2,600**	**4,390**
	10/15/2019	**2,370**	**4,240**
	1/20/2020	**2,450**	**4,410**
	4/9/2020	**2,460**	**4,620**
	7/14/2020	**2,360**	**5,250**
	10/7/2020	**2,270**	**4,860**
	1/7/2021	**2,170**	**4,550**
	4/7/2021	NS	NS
NM-MW-8			
	3/3/2017	**4,870**	**9,740**
	4/7/2017	**4,870**	**12,800**
	7/13/2017	**5,010**	**9,040**
	10/4/2017	**5,000**	**10,900**
	1/12/2018	**5,260**	**5,240**
	4/5/2018	**5,110**	**9,160**
	7/6/2018	**5,960**	**9,620**
	10/3/2018	**6,260**	**11,000**
	1/7/2019	**4,630**	**8,040**
	4/4/2019	**6,690**	**10,100**
	7/11/2019	**6,200**	**9,310**
	10/15/2019	**7,120**	**10,700**
	1/20/2020	**6,220**	**10,400**
	4/9/2020	**6,680**	**11,700**
	7/14/2020	**6,540**	**12,400**
	10/7/2020	**6,370**	**11,100**
	1/7/2021	**6,110**	**11,200**
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
NM-MW-9			
	1/13/2017	NS	NS
	4/10/2017	NS	NS
	7/17/2017	224	776
	10/4/2017	263	813
	1/12/2018	221	717
	4/5/2018	234	804
	7/6/2018	252	785
	10/3/2018	258	799
	1/7/2019	**2,620**	**4,160**
	4/5/2019	297	786
	7/12/2019	264	797
	10/15/2019	243	812
	1/22/2020	**555**	**1,090**
	4/10/2020	263	833
	7/13/2020	271	852
	10/8/2020	256	811
	1/8/2021	242	789
	4/7/2021	NS	NS
NM-MW-10			
	1/10/2017	**314**	**1,550**
	4/7/2017	**355**	**1,570**
	7/17/2017	**308**	**1,600**
	10/4/2017	**302**	**1,550**
	1/12/2018	**314**	**1,050**
	4/5/2018	**301**	**1,620**
	7/6/2018	**308**	**1,450**
	10/3/2018	**315**	**1,520**
	1/7/2019	290	**1,530**
	4/4/2019	**396**	**1,670**
	7/12/2019	**354**	**1,680**
	10/15/2019	**340**	**1,670**
	1/20/2020	**357**	**1,620**
	4/10/2020	**367**	**1,720**
	7/13/2020	**366**	**1,650**
	10/8/2020	**366**	**1,720**
	1/8/2021	**336**	**1,700**
	4/7/2021	NS	NS
NM-MW-11			
	1/10/2017	190	**2,100**
	4/7/2017	158	**1,980**
	7/17/2017	135	**2,020**
	10/4/2017	154	**1,940**
	1/12/2018	155	**1,710**
	4/5/2018	**699**	**1,920**
	7/6/2018	143	**1,820**
	10/3/2018	152	**1,920**
	1/7/2019	154	**1,840**
	4/4/2019	185	**1,870**
	7/12/2019	157	**1,980**
	10/15/2019	134	**1,530**
	1/20/2020	161	**1,870**
	4/9/2020	160	**1,990**
	7/10/2020	178	**2,120**
	10/8/2020	181	**1,960**
	1/8/2021	152	**2,030**
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
NM-MW-12			
	3/3/2017	**760**	**1,460**
	4/7/2017	**725**	**2,230**
	7/17/2017	**726**	**1,540**
	10/4/2017	**643**	**1,590**
	1/12/2018	**663**	**1,470**
	4/5/2018	**656**	**1,430**
	7/6/2018	**665**	**1,250**
	10/3/2018	**668**	**1,390**
	1/7/2019	**596**	**1,300**
	4/4/2019	**739**	**1,310**
	7/12/2019	**657**	524
	10/15/2019	**512**	**1,380**
	1/20/2020	NS	NS
	4/10/2020	**591**	**1,290**
	7/10/2020	**589**	**1,270**
	10/8/2020	**580**	**1,280**
	1/8/2021	**430**	**1,160**
	4/7/2021	NS	NS
NM-MW-13			
	3/3/2017	183	**1,020**
	4/7/2017	192	**1,110**
	7/17/2017	185	**1,100**
	10/4/2017	183	**1,100**
	1/12/2018	188	965
	4/5/2018	180	**1,090**
	7/6/2018	184	**1,050**
	10/3/2018	185	**1,110**
	1/7/2019	165	**1,070**
	4/4/2019	225	**1,090**
	7/12/2019	199	**1,090**
	10/15/2019	179	**1,100**
	1/20/2020	203	**1,060**
	4/9/2020	201	**1,090**
	7/10/2020	212	**1,130**
	10/8/2020	211	**1,100**
	1/8/2021	185	**1,110**
DUP	1/8/2021	186	**1,130**
	4/7/2021	NS	NS
NM-MW-14			
	2/18/2020	24.4	457
	4/10/2020	25.7	482
	7/13/2020	25.0	488
	10/8/2020	26.4	465
	1/8/2021	95.2	455
	4/7/2021	26.4	466
NM-MW-15			
	2/18/2020	55.9	499
	4/9/2020	55.6	530
	7/10/2020	57.3	509
	10/8/2020	59.9	521
	1/8/2021	56.4	507
	4/7/2021	58.1	519
NM-MW-16			
	2/18/2020	NS	NS
	4/9/2020	NS	NS
	7/10/2020	NS	NS
	10/8/2020	NS	NS
	1/8/2021	NS	NS
	4/7/2021	NS	NS
NM-MW-17			
	2/18/2020	160	989
	4/9/2020	198	**1,070**
	7/10/2020	211	978
	10/8/2020	216	976
	1/8/2021	182	971
	4/7/2021	207	**1,010**

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
NM-MW-20			
	2/18/2020	21.8	372
	4/9/2020	21.0	408
	7/10/2020	22.2	377
	10/8/2020	23.0	402
	1/8/2021	23.9	381
	4/7/2021	23.4	377
NM-MW-21			
	2/18/2020	31.5	533
	4/9/2020	28.3	560
	7/10/2020	28.8	524
	10/8/2020	29.8	523
	1/8/2021	29.0	541
	4/7/2021	28.1	529
Non-Remedial Wells			
DHU-FWS			
	01/06	**564**	**3,082**
	03/06	**581**	**3,181**
	6/14/2006	**553**	**3,020**
	9/12/2006	**584**	**2,650**
	12/6/2006	**636**	**3,070**
	7/30/2007	**646**	**3,010**
	1/21/2008	**637**	**3,140**
	7/7/2008	**546**	**3,050**
	1/26/2009	**610**	**3,040**
	8/21/2009	**580**	**3,000**
	2/17/2010	NS	**3,000**
	2/18/2010	**401**	NS
	8/16/2010	**771**	**3,060**
	2/10/2011	**577**	**2,840**
	8/2/2011	**612**	**2,960**
	1/31/2012	**866**	**2,910**
	7/19/2016	**629**	**2,810**
	1/11/2017	**670**	**3,060**
	4/10/2017	NS	NS
	7/14/2017	**587**	**3,020**
	10/9/2017	**565**	**2,990**
	1/12/2018	**615**	**2,820**
	4/5/2018	**572**	**2,640**
	7/5/2018	**593**	**2,710**
	10/3/2018	**593**	**2,830**
	1/7/2019	**611**	**2,900**
	4/5/2019	**658**	**3,120**
	7/15/2019	**624**	**3,020**
	10/16/2019	**603**	**2,950**
	1/22/2020	NS	NS
	4/13/2020	**570**	**2,940**
	7/14/2020	**628**	**3,120**
	10/12/2020	**650**	**3,240**
	1/12/2021	**625**	**3,120**
	4/7/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
DHU-Office			
	04/06	**376**	**2,434**
DHU- Office (CHRM)			
	04/06	**382**	**2,460**
Livermore			
	01/06	NS	NS
	03/06	**6,946**	**11,381**
	6/14/2006	**8,320**	**14,300**
	9/12/2006	**7,400**	**12,000**
	12/7/2006	**5,750**	**12,000**
	2/28/2007	**5,770**	**11,200**
	7/30/2007	**5,910**	**12,600**
	7/7/2008	**5,280**	**9,340**
	1/29/2009	**4,670**	**8,200**
	8/25/2009	**4,630**	**8,260**
	2/18/2010	**3,700**	**7,560**
	8/20/2010	**4,390**	**7,920**
	2/15/2011	**4,400**	**7,430**
	8/5/2011	**4,230**	**7,230**
	2/3/2012	**3,310**	**6,790**
	8/7/2012	**3,730**	NS
	1/30/2013	**3,810**	**6,080**
	7/31/2013	**3,630**	**6,240**
	1/15/2014	**3,450**	**5,580**
	7/16/2014	**3,190**	**6,830**
	1/14/2015	**3,200**	**6,490**
	7/17/2015	**5,380**	**11,500**
	1/29/2016	**3,110**	**4,530**
	7/21/2016	**3,040**	**5,710**
	1/11/2017	**2,940**	**4,970**
	4/10/2017	NS	NS
	7/19/2017	**2,870**	**4,800**
	10/9/2017	**2,700**	**4,200**
	1/12/2018	**2,700**	**4,830**
	4/6/2018	**2,530**	**1,430**
	7/3/2018	**2,560**	**4,580**
	10/4/2018	**2,710**	**4,020**
	1/8/2019	**2,530**	**4,330**
	4/10/2019	**2,660**	**4,670**
	7/16/2019	**1,340**	**4,720**
	10/17/2019	**2,490**	**4,160**
	1/22/2020	**2,700**	**4,560**
	4/13/2020	**1,880**	**4,300**
	7/15/2020	**2,440**	**5,200**
	10/12/2020	**2,450**	**4,430**
	1/11/2021	**2,200**	**4,290**
	4/7/2021	NS	NS
Pure Water Tower			
	01/06	**6,976**	**12,456**
	03/06	NS	NS
	6/14/2006	**7,890**	**16,200**
	9/12/2006	**8,200**	**13,100**
	12/6/2006	**8,070**	**14,600**
	2/27/2007	**6,400**	**12,800**
	7/30/2007	**7,450**	**15,400**
	1/21/2008	**11,800**	**20,100**
	1/26/2009	**5,010**	**12,100**
	8/21/2009	**6,920**	**12,900**
	2/17/2010	NS	**19,800**
	2/18/2010	**9,880**	NS
	8/16/2010	**11,800**	**23,000**
	6/28/2011	**9,260**	**20,500**
	8/5/2011	**6,470**	**12,900**
	1/31/2012	**5,380**	**11,500**
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
Pure Water Well			
	01/06	NS	NS
	03/06	NS	NS
	6/14/2006	**5,820**	**11,200**
	9/12/2006	**6,260**	**13,900**
	12/6/2006	**2,790**	**5,680**
	7/23/2007	**4,060**	**9,500**
	1/21/2008	**2,560**	**4,590**
	7/7/2008	**1,030**	**2,320**
	1/26/2009	**4,390**	**10,400**
	8/21/2009	**5,240**	**9,840**
	2/17/2010	NS	**9,160**
	2/18/2010	**1,810**	NS
	2/10/2011	**5,070**	**12,900**
	8/5/2011	**5,430**	**12,900**
	8/21/2012	**4,650**	**10,200**
	1/30/2013	**4,880**	**8,800**
	10/25/2013	**5,340**	**11,100**
	1/13/2014	**4,830**	**10,700**
	7/17/2015	**754**	**1,890**
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS
RRR Ranch Windmill			
	01/06	NS	NS
	03/06	**1,693**	**3,527**
	6/14/2006	**1,760**	**3,640**
	1/28/2016	**1,430**	**2,760**
	7/22/2016	**1,460**	**3,940**
	1/12/2017	**1,760**	**3,030**
	4/10/2017	NS	NS
	7/17/2017	**1,570**	**3,300**
	10/9/2017	**2,620**	**3,870**
	1/12/2018	**650**	**1,500**
	4/5/2018	**1,620**	**3,110**
	7/6/2018	**1,670**	**3,030**
	10/3/2018	**1,660**	**3,000**
	1/7/2019	**1,290**	**2,950**
	4/4/2019	47.4	**3,110**
	7/11/2019	**1,800**	**3,560**
	10/15/2019	**1,800**	**3,500**
	1/23/2020	**1,850**	**3,520**
	4/9/2020	**1,860**	**3,460**
	7/14/2020	**1,930**	**4,490**
	10/7/2020	**1,960**	**4,110**
	1/7/2021	**2,030**	**3,780**
DUP	1/7/2021	**1,930**	**3,830**

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Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
TRAC-4			
	01/06	**432**	**1,237**
	03/06	**581**	**3,181**
	6/14/2006	**402**	**1,270**
	9/11/2006	**428**	**1,310**
	12/7/2006	**456**	**1,300**
	2/27/2007	**435**	**1,240**
	7/30/2007	**493**	**1,320**
	1/21/2008	**421**	**1,220**
	7/7/2008	**461**	**1,290**
	1/26/2009	**546**	**1,320**
	8/21/2009	**471**	**1,330**
	2/17/2010	NS	**1,320**
	2/18/2010	**469**	NS
	2/15/2011	**549**	**1,340**
	8/4/2011	**455**	**1,250**
	1/31/2012	**445**	**1,150**
	8/2/2012	**433**	NS
	7/31/2013	**427**	**1,170**
	7/18/2014	**470**	**1,480**
	7/17/2015	**425**	**1,210**
	1/28/2016	**400**	**1,280**
	7/19/2016	NS	NS
	1/11/2017	**377**	**1,160**
	4/10/2017	NS	NS
	7/19/2017	**350**	**1,100**
	10/9/2017	**348**	**1,110**
	1/12/2018	**335**	**1,120**
	4/6/2018	**401**	**1,040**
	7/3/2018	**343**	**1,040**
	10/4/2018	**347**	**1,070**
	1/7/2019	**315**	**1,080**
	4/9/2019	**350**	**1,070**
	7/16/2019	**333**	**1,110**
	10/17/2019	**323**	**1,070**
	1/22/2020	NS	NS
	4/10/2020	NS	NS
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS
	4/7/2021	NS	NS
TRAC-8			
	01/06	**2,090**	**3,786**
	03/06	**2,090**	**3,801**
	6/14/2006	**1,740**	**3,830**
	9/11/2006	**1,990**	**4,630**
	12/6/2006	**2,130**	**4,600**
	2/27/2007	**2,220**	**4,630**
	7/30/2007	**2,220**	**5,110**
	1/21/2008	**2,100**	**3,580**
	7/7/2008	**2,010**	**4,170**
	1/26/2009	**2,250**	**4,280**
	8/21/2009	**2,260**	**4,140**
	3/8/2010	**2,240**	**4,430**
	8/16/2010	**2,360**	**4,350**
	2/10/2011	**2,880**	**4,750**
	8/4/2011	**2,450**	**5,170**
	1/31/2012	**2,120**	**4,600**
	8/2/2012	**1,600**	NS
	1/30/2013	**1,920**	**3,420**
	7/31/2013	**1,760**	**4,060**
	1/13/2014	**1,650**	**3,270**
	7/17/2014	**1,770**	**4,670**
	1/13/2015	**1,810**	**4,300**
	1/28/2016	NS	NS
	7/19/2016	**2,000**	**4,380**
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS

Appendix C

Historical Groundwater Analytical Results Summary
Chevron Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
Wilson Ranch			
	01/06	**2,243**	**3,578**
	03/06	NS	NS
	6/14/2006	**2,410**	**4,980**
	9/12/2006	**2,510**	**4,450**
	12/7/2006	**2,350**	**4,750**
	2/27/2007	**2,110**	**4,020**
	7/30/2007	**2,440**	**5,240**
	1/21/2008	**2,690**	**3,880**
	7/7/2008	**2,030**	**3,810**
	8/25/2009	**2,320**	**5,350**
	2/12/2016	**888**	**2,230**
	7/19/2016	**1,500**	**3,250**
	1/10/2017	**1,300**	**3,130**
	4/10/2017	NS	NS
	7/16/2017	**1,140**	**2,380**
	10/9/2017	**1,200**	**2,800**
	1/12/2018	**673**	**1,600**
	4/6/2018	**1,360**	**2,950**
	7/6/2018	**1,330**	**2,190**
	10/3/2018	**1,380**	**2,680**
	1/7/2019	**1,070**	**2,420**
	4/4/2019	**1,480**	**2,440**
	7/12/2019	**1,300**	**2,530**
	10/15/2019	**928**	**1,880**
	1/22/2020	**1,330**	**2,790**
	4/10/2020	**1,260**	**2,530**
	7/10/2020	**1,030**	**1,990**
	10/8/2020	**784**	**1,710**
	1/8/2021	**526**	**2,070**
	4/7/2021	NS	NS
Smith Residential Well			
	1/13/2017	**1,600**	**2,580**
	4/10/2017	NS	NS
	7/17/2017	**1,050**	**2,230**
	10/9/2017	**1,260**	**2,660**
	1/12/2018	**650**	**1,500**
	4/5/2018	**1,280**	**2,670**
	7/6/2018	**1,340**	**2,140**
	10/3/2018	**1,310**	**2,260**
	1/7/2019	**1,020**	**2,230**
	4/5/2019	**1,510**	**2,490**
	7/12/2019	**1,300**	**2,660**
	10/15/2019	**1,180**	**2,140**
	1/22/2020	**1,360**	**2,550**
	4/10/2020	**1,310**	**2,600**
	7/10/2020	**1,310**	**2,570**
	10/8/2020	**753**	**1,570**
	1/8/2021	**1,040**	**1,940**
	4/7/2021	NS	NS

Notes:
1. Constituent concentrations are reported in milligrams per liter (mg/L).
2. Bold font and shading indicates that a detected result exceeded the TCEQ Secondary Drinking Water Standard.

NS = Not Sampled
NS = Not Applicable

Appendix D

Data Validation Reports

Memorandum

February 15, 2021

To:	Nick Casten, Liz Whiddon	Ref. No.:	055270
From:	Chris G. Knight/eew/33-NF	Tel:	512-506-8803
Subject:	**Analytical Results and Reduced Validation Groundwater Monitoring Well Sampling Chevron Environmental Management Company (CEMC) - Dollarhide Andrews County, Texas January 2021**		

1. Introduction

The following document details a reduced validation of analytical results for groundwater samples collected at the Chevron Environmental Management Company (CEMC) – Dollarhide site during January 2021. Samples were submitted to Xenco Laboratories, located in Midland, Texas. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, duplicate data, recovery data from laboratory control sample/laboratory control duplicate samples (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicates, and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the document entitled:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", EPA 540-R-2016-001, September 2016.

Item i) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and the analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Laboratory Control Sample Analyses

LCS/LCSD are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained chloride. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

5. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed for chloride analyses as specified in Table 1. The MS/MSD samples were spiked with chloride and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision with the following exception:

i) Several MS/MSDs were reported with elevated recoveries due to possible matrix interferences and were not assessed. No further action was required.

The laboratory also performed additional MS/MSD analyses on non-site samples. These cannot be used to assess accuracy and precision for the site samples.

6. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1 for total dissolved solids (TDS). The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

The laboratory also performed additional duplicate analyses on non-site samples. These cannot be used to assess precision for the site samples.

7. Field QA/QC Samples

The field QA/QC consisted 4 field duplicate sample sets.

To assess the analytical and sampling protocol precision, 4 field duplicate sample sets were collected and submitted to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's RL for each analyte.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
NM-MW-6-W-210701	NM-MW-6	Water	01/07/2021	12:00	X	X	
NM-MW-5-W-210701	NM-MW-5	Water	01/07/2021	12:30	X	X	
NM-MW-1-W-210701	NM-MW-1	Water	01/07/2021	13:00	X	X	
NM-MW-2-W-210701	NM-MW-2	Water	01/07/2021	13:30	X	X	MS/MSD
NM-MW-3-W-210701	NM-MW-3	Water	01/07/2021	14:00	X	X	DUP
NM-MW-7-W-210701	NM-MW-7	Water	01/07/2021	14:30	X	X	
RRR-Ranch Windmill-W-210701	Ranch Windmill	Water	01/07/2021	15:00	X	X	
RRR-Ranch Windmill-WD-210701	Ranch Windmill	Water	01/07/2021	15:00	X	X	
NM-MW-4-W-210701	NM-MW-4	Water	01/07/2021	15:30	X	X	
NM-MW-8-W-210701	NM-MW-8	Water	01/07/2021	16:00	X	X	
NM-MW-13-W-210801	NM-MW-13	Water	01/08/2021	10:00	X	X	
NM-MW-13-DW-210801	NM-MW-13	Water	01/08/2021	10:00	X	X	Field duplicate of NM-MW-13
NM-MW-11-W-210801	NM-MW-11	Water	01/08/2021	10:15	X	X	
NM-MW-15-W-210801	NM-MW-15	Water	01/08/2021	10:30	X	X	
NM-MW-17-W-210801	NM-MW-17	Water	01/08/2021	10:45	X	X	
NM-MW-21-W-210801	NM-MW-21	Water	01/08/2021	11:15	X	X	

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
NM-MW-20-W-210801	NM-MW-20	Water	01/08/2021	11:30	X	X	
NM-MW-10-W-210801	NM-MW-10	Water	01/08/2021	11:45	X	X	
NM-MW-12-W-210801	NM-MW-12	Water	01/08/2021	12:00	X	X	MS/MSD
Wilson Ranch Well-W-210801	WILSON RANCH WW	Water	01/08/2021	12:15	X	X	
MW-32-W-210801	MW-32	Water	01/08/2021	12:45	X	X	
MW-32-WD-210801	MW-32	Water	01/08/2021	12:45	X	X	Field duplicate of MW-32; MS/MSD
MW-33-W-210801	MW-33	Water	01/08/2021	13:00	X	X	DUP
MW-34-W-210801	MW-34	Water	01/08/2021	13:15	X	X	
MW-29-W-210801	MW-29	Water	01/08/2021	13:30	X	X	DUP
MW-28-W-210801	MW-28	Water	01/08/2021	13:45	X	X	
58-B-3-MW-W-210801	58-B-3	Water	01/08/2021	14:00	X	X	
NM-MW-9-W-210801	NM-MW-9	Water	01/08/2021	14:15	X	X	
NM-MW-14-W-210801	NM-MW-14	Water	01/08/2021	14:30	X	X	
Smith Residence-W-210801	SMITH RESIDENCE	Water	01/08/2021	14:45	X	X	
MW-17-W-211101	MW-17	Water	01/11/2021	10:45	X	X	
MW-23-W-211101	MW-23	Water	01/11/2021	10:55	X	X	

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
MW-22-W-211101	MW-22	Water	01/11/2021	11:00	X	X	
MW-30-W-211101	MW-30	Water	01/11/2021	11:10	X	X	
MW-13-W-211101	MW-13	Water	01/11/2021	11:20	X	X	
MW-13-WD-211101	MW-13	Water	01/11/2021	11:20	X	X	Field duplicate of MW-13
MW-4-W-211101	MW-4	Water	01/11/2021	11:30	X	X	
MW-3-W-211101	MW-3	Water	01/11/2021	11:50	X	X	MS/MSD, DUP
MW-14-W-211101	MW-14	Water	01/11/2021	12:10	X	X	
MW-15-W-211101	MW-15	Water	01/11/2021	12:20	X	X	MS/MSD, DUP
MW-16-W-211101	MW-16	Water	01/11/2021	12:35	X	X	
MW-21-W-211101	MW-21	Water	01/11/2021	12:45	X	X	
MW-19-W-211101	MW-19	Water	01/11/2021	13:00	X	X	
MW-26-W-211101	MW-26	Water	01/11/2021	13:10	X	X	MS/MSD, DUP
MW-20-W-211101	MW-20	Water	01/11/2021	13:15	X	X	
MW-27-W-211101	MW-27	Water	01/11/2021	13:30	X	X	
MW-10-W-211101	MW-10	Water	01/11/2021	13:35	X	X	
MW-24-W-211101	MW-24	Water	01/11/2021	13:45	X	X	

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
MW-18-W-211101	MW-18	Water	01/11/2021	13:55	X	X	
Livermore-W-211101	Livermore	Water	01/11/2021	14:05	X	X	
MW-5-W-211101	MW-5	Water	01/11/2021	14:15	X	X	
MW-6-W-211101	MW-6	Water	01/11/2021	14:25	X	X	
MW-11-W-211101	MW-11	Water	01/11/2021	14:35	X	X	
MW-31-W-211101	MW-31	Water	01/11/2021	14:55	X	X	
MW-12-W-211101	MW-12	Water	01/11/2021	15:00	X	X	
MW-25-W-211101	MW-25	Water	01/11/2021	15:10	X	X	
44-J-2-MW-W-211201	44-J-2	Water	01/12/2021	10:40	X	X	DUP
44-J-1-MW-W-211201	44-J-1	Water	01/12/2021	10:55	X	X	
44-J-5-MW-W-211201	44-J-5	Water	01/12/2021	11:00	X	X	
44-J-3-MW-W-211201	44-J-3	Water	01/12/2021	11:05	X	X	MS/MSD
44-J-4-MW-W-211201	44-J-4	Water	01/12/2021	11:10	X	X	
44-I-1-MW-W-211201	44-I-1	Water	01/12/2021	11:20	X	X	
45-E-2-MW-W-211201	45-E-2	Water	01/12/2021	11:40	X	X	
45-E-2-M-WD-211201	45-E-2	Water	01/12/2021	11:40	X	X	Field duplicate of 45-E-2

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
44-E-1-MW-W-211201	44-E-1	Water	01/12/2021	11:45	X	X	
45-FF-MW-W-211201	45-FF	Water	01/12/2021	11:55	X	X	
45-F-1-MW-W-211201	45-F-1	Water	01/12/2021	12:05	X	X	
DHU-FWS-W-211201	DHU-FWS	Water	01/12/2021	12:20	X	X	
MW-8-W-211201	MW-8	Water	01/12/2021	12:25	X	X	
MW-9-W-211201	MW-9	Water	01/12/2021	12:35	X	X	
58-B-1-MW-W-211201	58-B-1	Water	01/12/2021	12:45	X	X	MS/MSD, DUP
58-B-2-MW-W-211201	58-B-2	Water	01/12/2021	12:50	X	X	
45-E-3-MW-W-211201	45-E-3	Water	01/12/2021	13:05	X	X	
43-K-1-MW-W-211201	43-K-1	Water	01/12/2021	13:10	X	X	

Notes:

TDS	- Total Dissolved Solids
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
DUP	- Laboratory Duplicate

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		43-K-1	44-E-1	44-I-1	44-J-1	44-J-2	44-J-3	44-J-4
Sample Name:		43-K-1-MW-W-211201	44-E-1-MW-W-211201	44-I-1-MW-W-211201	44-J-1-MW-W-211201	44-J-2-MW-W-211201	44-J-3-MW-W-211201	44-J-4-MW-W-211201
Sample Date:		01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021
Parameters	**Unit**							
General Chemistry								
Chloride	mg/L	5620	2490	3540	3730	4890	4870	3930
TDS	mg/L	10200	4680	6240	6700	8640	8630	7070

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		44-J-5	45-E-2	45-E-2	45-E-3	45-F-1	45-FF	58-B-1
Sample Name:		44-J-5-MW-W-211201	45-E-2-MW-W-211201	45-E-2-M-WD-211201	45-E-3-MW-W-211201	45-F-1-MW-W-211201	45-FF-MW-W-211201	58-B-1-MW-W-211201
Sample Date:		01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021
				Duplicate				
Parameters	**Unit**							
General Chemistry								
Chloride	mg/L	4140	1670	1660	4260	991	3770	6230
TDS	mg/L	7520	3080	3130	7790	1770	6450	10500

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		58-B-2	58-B-3	DHU-FWS	Livermore	MW-3	MW-4	MW-5	MW-6
Sample Name:		58-B-2-MW-W-211201	58-B-3-MW-W-210801	DHU-FWS-W-211201	Livermore-W-211101	MW-3-W-211101	MW-4-W-211101	MW-5-W-211101	MW-6-W-211101
Sample Date:		01/12/2021	01/08/2021	01/12/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021
Parameters	**Unit**								
General Chemistry									
Chloride	mg/L	3560	1630	625	2200	605	327	252	380
TDS	mg/L	1240	2800	3120	4290	1470	911	975	1580

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-13	MW-14	MW-15
Sample Name:		MW-8-W-211201	MW-9-W-211201	MW-10-W-211101	MW-11-W-211101	MW-12-W-211101	MW-13-W-211101	MW-13-WD-211101	MW-14-W-211101	MW-15-W-211101
Sample Date:		01/12/2021	01/12/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021
								Duplicate		
Parameters	**Unit**									
General Chemistry										
Chloride	mg/L	994	2670	3880	7290	13300	1270	1600	1260	902
TDS	mg/L	2420	4760	8180	11900	22300	4180	4260	3210	1880

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24
Sample Name:		MW-16-W-211101	MW-17-W-211101	MW-18-W-211101	MW-19-W-211101	MW-20-W-211101	MW-21-W-211101	MW-22-W-211101	MW-23-W-211101	MW-24-W-211101
Sample Date:		01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021	01/11/2021
Parameters	**Unit**									
General Chemistry										
Chloride	mg/L	403	7680	21000	7350	1130	3050	11000	4160	1680
TDS	mg/L	1050	4200	35800	12500	2460	10100	17600	8970	8690

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32	MW-32
Sample Name:		MW-25-W-211101	MW-26-W-211101	MW-27-W-211101	MW-28-W-210801	MW-29-W-210801	MW-30-W-211101	MW-31-W-211101	MW-32-W-210801	MW-32-WD-210801
Sample Date:		01/11/2021	01/11/2021	01/11/2021	01/08/2021	01/08/2021	01/11/2021	01/11/2021	01/08/2021	01/08/2021
										Duplicate
Parameters	**Unit**									
General Chemistry										
Chloride	mg/L	23900	1400	2210	3940	550	2100	9500	349	303
TDS	mg/L	36600	3370	4160	6840	1280	4050	17100	1170	1170

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		MW-33	MW-34	NM-MW-1	NM-MW-2	NM-MW-3	NM-MW-4	NM-MW-5	NM-MW-6
Sample Name:		MW-33-W-210801	MW-34-W-210801	NM-MW-1-W-210701	NM-MW-2-W-210701	NM-MW-3-W-210701	NM-MW-4-W-210701	NM-MW-5-W-210701	NM-MW-6-W-210701
Sample Date:		01/08/2021	01/08/2021	01/07/2021	01/07/2021	01/07/2021	01/07/2021	01/07/2021	01/07/2021
Parameters	**Unit**								
General Chemistry									
Chloride	mg/L	190	70.8	273	659	264	44.4	146	142
TDS	mg/L	1060	610	1410	1230	680	435	1260	811

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		NM-MW-7	NM-MW-8	NM-MW-9	NM-MW-10	NM-MW-11	NM-MW-12	NM-MW-13
Sample Name:		NM-MW-7-W-210701	NM-MW-8-W-210701	NM-MW-9-W-210801	NM-MW-10-W-210801	NM-MW-11-W-210801	NM-MW-12-W-210801	NM-MW-13-W-210801
Sample Date:		01/07/2021	01/07/2021	01/08/2021	01/08/2021	01/08/2021	01/08/2021	01/08/2021
Parameters	**Unit**							
General Chemistry								
Chloride	mg/L	2170	6110	242	336	152	430	185
TDS	mg/L	4550	11200	789	1700	2030	1160	1110

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		NM-MW-13	NM-MW-14	NM-MW-15	NM-MW-17	NM-MW-20	NM-MW-21
Sample Name:		NM-MW-13-DW-210801	NM-MW-14-W-210801	NM-MW-15-W-210801	NM-MW-17-W-210801	NM-MW-20-W-210801	NM-MW-21-W-210801
Sample Date:		01/08/2021	01/08/2021	01/08/2021	01/08/2021	01/08/2021	01/08/2021
		Duplicate					
Parameters	**Unit**						
General Chemistry							
Chloride	mg/L	186	95.2	56.4	182	23.9	29.0
TDS	mg/L	1130	455	507	971	381	541

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Location ID:		Ranch Windmill	Ranch Windmill	SMITH RESIDENCE	WILSON RANCH WW
Sample Name:		**RRR-Ranch Windmill-W-210701**	**RRR-Ranch Windmill-WD-210701**	**Smith Residence-W-210801**	**Wilson Ranch Well-W-210801**
Sample Date:		**01/07/2021**	**01/07/2021**	**01/08/2021**	**01/08/2021**
Parameters	**Unit**				
General Chemistry					
Chloride	mg/L	2030	1930	1040	526
TDS	mg/L	3780	3830	1940	2070

Notes:

TDS - Total Dissolved Solids

Table 3

Analytical Methods
Groundwater Monitoring Well Sampling
Chevron Environmental Management Company (CEMC) - Dollarhide
Andrews County, Texas
January 2021

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Chloride	EPA 300/300.1	Water	28
TDS	SM 2540C	Water	7

Notes:

TDS - Total Dissolved Solids

Method References:

EPA - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions

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

CONDITIONS

Action 42228

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 42228
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of Semi-Annual Groundwater Monitoring Report (January to June 2021) Report: Content satisfactory 1. Follow recommendations stated within First Half 2021 Groundwater Monitoring Summary Report. a. Continue conducting quarterly monitoring of the monitor wells installed in 2019 and 2020 b. Continue collecting all viable wells in the groundwater monitoring system semi-annually	12/29/2021