RANGER
ENVIRONMENTAL SERVICES, LLC

2024 ANNUAL GROUNDWATER MONITORING REPORT

WILLIAMS PIT (AP-22)
INCIDENT NO. NAUTOFAB000741
UNIT F, SECTION 25, TOWNSHIP 18S, RANGE 26E
EDDY COUNTY, NEW MEXICO
32.720624, -104.336249
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

MARCH 24, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

TABLE OF CONTENTS

FIGURES

- Topographic Map
- Area Map
- Site Map
- Groundwater Gradient Maps
- Groundwater TDS, Chloride, and Sulfate Isoconcentration Maps

TABLES

- Cumulative Well Gauging Data
- Cumulative Groundwater EPA Method 300.0: Anions
- Cumulative Groundwater Dissolved Metals (Table 1 of 2)
- Cumulative Groundwater Dissolved Metals (Table 2 of 2)
- Cumulative Groundwater TPH and VOC Data Summary
- Cumulative Groundwater Specific Conductance, pH, Alkalinity, and TDS

ATTACHMENTS

- Attachment 1 – Site Photographs
- Attachment 2 – Laboratory Analytical Reports
- Attachment 3 – NMOCD Correspondence

RANGER
ENVIRONMENTAL SERVICES, LLC

2024 ANNUAL GROUNDWATER MONITORING REPORT
WILLIAMS PIT (AP-22)
INCIDENT NO. NAUTOFAB000741
UNIT F, SECTION 25, TOWNSHIP 18S, RANGE 26E
EDDY COUNTY, NEW MEXICO
32.720624, -104.336249
RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The Williams Pit (Site) is a historic oil and gas production pit formerly located at the Williams Battery facility pad, an oil and gas production facility located on private land, approximately 9.15 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit F, Section 25, T18S-R26E at GPS coordinates 32.720624, -104.336249. The Williams Battery is currently active and is being operated by Silverback Operating II (Silverback). Based on the Site history and transaction history, EOG Resources, Inc. (EOG) maintains environmental responsibility for the impacts related to NAUTOFAB000741 at the Site.

The Williams Battery was historically operated by H&S Oil Company (H&S) and the unlined earthen production pit (Williams Pit) was formerly utilized by H&S for oil and gas fluid storage/impoundment. In 1997, Yates Petroleum Corporation (Yates) acquired the Willaims Battery and associated pit from H&S. While operated by Yates, the pit underwent closure and assessment of the former pit location was conducted. In September 2016, EOG acquired Yates and its associated assets including the Williams Battery which included the subject Williams Pit.

The production pit closure and assessment activities completed by Yates documented impacts to the native soil. Groundwater impacts were also documented at the Site in the 2002 timeframe. Due to the documented conditions at the Site, coordination with the New Mexico Oil and Gas Division (NMOCD) was initiated. Communication and coordination between the NMOCD and Yates continued until 2005 when a Stage I & II Abatement Plan was submitted to the NMOCD. Based on available information, no response was ever received from the NMOCD regarding this plan. During the 2005 to 2022 timeframe, a total of 13 groundwater monitoring events were conducted at the Site. In May 2021, additional soil investigation activities were completed at the Site.

EOG has engaged Ranger Environmental Services, LLC (Ranger) to assist in the continuation of the assessment and remediation efforts at the Site. In May 2023, Ranger personnel established communications with the NMOCD and began discussion of the Site with NMOCD representatives that included the steps needed to bring the Site into compliance with the current regulatory criteria and New Mexico Administrative Code (NMAC). Based on Ranger's communications with the NMOCD, a comprehensive *Site Chronology and Status Update* report, dated September 19, 2023, was submitted to the NMOCD to provide a summary of the Site history and the cumulative soil and groundwater data so that a regulatory path forward could be established.

Based upon communications with the NMOCD, groundwater monitoring activities were continued at the subject site in 2023, with an annual groundwater monitoring event completed in November 2023. A March 27, 2024 "*Annual Groundwater Monitoring Report*" was prepared by Ranger and submitted to the NMOCD which documented the 2023 groundwater sampling activities and results. The 2023 annual report also included recommendations to conduct quarterly groundwater monitoring activities at the Site beginning in the second quarter of 2024 with analysis of groundwater samples being limited to the constituents of concern (COCs) which have historically been detected in exceedance of the NMAC 20.6.2.3103 criteria. The report also included recommendations for further groundwater delineation and collection of background groundwater quality data to determine whether the former production pit is the source for the elevated groundwater benzene, chloride, sulfate and TDS concentrations at the site, or whether these concentrations are a result of background conditions and/or a historic release source other than the former production pit.

By May 2024, since no response had yet been received from the NMOCD in regard to the September 2023 *Site Chronology and Status Update* report or the March 2024 *Annual Groundwater Monitoring Report*, the recommended quarterly groundwater monitoring program was implemented at the Site. As noted in the 2023 annual report, upon NMOCD review of these reports the recommended subset of the site groundwater monitoring COCs will be modified if requested by the NMOCD.

On October 23, 2024, EOG and NMOCD representatives participated in a meeting to discuss the site status, the recommendations for additional site assessment that were presented in the 2023 annual report, and to determine an appropriate pathway forward for the site. During the meeting, the NMOCD requested modifications to the assessment workplan presented in Ranger's 2023 annual report. Based on the meeting details, a Ranger-prepared Assessment Workplan, dated January 28, 2025, was prepared and submitted to the NMOCD which proposed the additional assessment activities that were discussed with the NMCOD in October 2024. An NMOCD response to the *Assessment Workplan* is currently pending.

This report has been prepared to provide details and results of the groundwater sampling activities completed in 2024.

A *Topographic Map* and *Area Map* noting the location of the subject Site and surrounding areas are attached. A *Site Map* depicting the pertinent site features is also attached.

2.0 GROUNDWATER MONITORING (2024)

As summarized above, and as recommended in the 2023 annual report, quarterly groundwater monitoring activities were continued at the Site beginning in the second quarter of 2024. A total of three quarterly groundwater monitoring events were conducted at the Site in 2024. The monitoring events were conducted on April 30, 2024, September 24, 2024, and December 10, 2024.

Attached are cumulative summary tables of the Site well gauging data and groundwater laboratory analytical results. Also attached are isoconcentration maps for the primary site groundwater COCs (chloride, sulfate and TDS), groundwater gradient maps, and copies of the laboratory analytical reports. Below is a summary of the 2024 annual groundwater monitoring activities and results.

2.1 Groundwater Monitoring Methodologies

Upon arrival at the Site, the monitor wells were opened and allowed to equilibrate for approximately 30 minutes prior to the performance of any well gauging or sampling activities. Prior to sampling the groundwater in each monitor well, the wells were first gauged with a decontaminated interface probe to determine the depth to groundwater in each monitor well, and light nonaqueous phase liquid (LNAPL) thicknesses, if any. This data was utilized to determine the site groundwater flow direction and gradient.

Groundwater samples were subsequently collected using low-flow sampling techniques. The wells were purged and sampled using a low flow rate (0.026 to 0.264 gpm) that minimized drawdown. The pump-intake was located in the middle or slightly above the middle of the saturated screened interval. The monitoring wells were purged until the field water quality parameters (i.e., pH, temperature, and conductivity) stabilized. Parameters were considered to have stabilized if, over three consecutive readings, the following criteria were met:

- pH ±0.1 unit
- Temperature within 3%
- Conductivity within 3%

All sample containers were filled with minimal turbulence. Due to sample turbidity, the samples collected for dissolved metals analysis were first field-filtered through a 10-micron pore size filter. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples.

All samples were containerized using properly selected and cleaned containers, which were preserved by the laboratory as needed for the particular analysis to be performed. All VOC sample vials were filled completely to minimize head space. The samples were subsequently sealed in one or more ziplock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date and time of sample collection, and samplers' initials. Chain-of-custody forms were completed to document sample transport to the analytical laboratory.

As recommended in the 2023 annual report, the groundwater samples were subsequently analyzed for the 10 COCs which have been detected in the site groundwater in exceedance of the NMAC 20.6.2.3103 criteria on at least one or more occasions historically. Below is a summary of these COCs and the associated analytical methods:

- **EPA Method 300.0:** Chloride and sulfate
- **SM2540C MOD:** Total dissolved solids
- **EPA METHOD 200.7/EPA METHOD 200.8:** Arsenic, Chromium, iron, manganese, selenium and silver
- **EPA METHOD 8260B:** Benzene

A trip blank was included in each sample cooler to assess the potential cross-contamination of field samples during shipment to, and storage in, the laboratory. The trip blanks were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Method 8260. All trip blank results were non-detectable.

All purge water generated during the well purging process was placed in a sealed and labeled 55-gallon drum and was temporarily stored on-site pending off-site disposal.

2.2 2024 Groundwater Monitoring Results Summary

Well Gauging Results

No LNAPL was documented to be present in the site monitoring wells. The depth to groundwater in the site monitoring wells was documented to range from approximately 25.45' bgs in MW-4 to a maximum of approximately 27.82' bgs in MW-3. As illustrated on the attached groundwater gradient map, the April 30, 2024 site groundwater gradient and flow direction was documented to be approximately 0.01 ft/ft moving radially outward from the former pit location. The September 24, 2024 and December 10, 2024 groundwater gradient and flow direction was documented to be approximately 0.01 ft/ft to the northwest, west, and southwest. The 2024 well gauging results were generally consistent with the historical well gauging results.

Groundwater Analytical Results

- ***Groundwater Anions and TDS*:** As summarized in Section 2.1, above, chloride, sulfate, and TDS were historically detected in the site groundwater in exceedance of the NMAC 20.6.2.3103 standards. Consistent with historical results, the 2024 groundwater analytical data continued to document elevated concentrations of chloride, sulfate and TDS in the site groundwater, with these three COCs being the primary constituents of concern at the subject site. Concentrations of chloride, sulfate and TDS above the NMAC 20.6.2.3103 standards were documented in all four site monitoring wells during all three 2024 sampling events.

  During 2024, pit area monitor well MW-4 was found to contain the lowest site chloride and TDS concentrations while monitor well MW-1 was found to contain the overall highest site chloride and TDS concentrations. As such, based upon the available data, the pit does not appear to be the source for the elevated groundwater chloride and TDS concentrations. As illustrated on the attached chloride and TDS isoconcentration maps, the pit does not appear to be a contaminant "hot spot" or "source" area; rather, it has better water quality than the areas surrounding it. As summarized in Section 1.0, above, the January 2025 *Assessment Work Plan* has included provisions to conduct further plume delineation activities and collect background water quality data to further evaluate whether the elevated chloride and TDS concentrations are a result of background conditions and/or a release source other than the pit.

  Consistent with historical results, the elevated site sulfate concentrations documented in 2024 were not suggestive of an on-site release, particularly from the former pit. The groundwater sulfate analytical results were all relatively similar in each monitor well, and there was no obvious "hot spot" or "source" area for the elevated sulfate concentrations. The data are more indicative of what would be expected if the elevated sulfate concentrations were related to background conditions. Monitor well MW-1 had the overall highest site sulfate concentrations in 2024.

- ***Dissolved Metals*:** An exceedance of the NMAC 20.6.2.3103 standard for arsenic was documented in monitor well MW-2 during the April 30, 2024 sampling event. However, the arsenic concentrations in MW-2 were below the NMAC 20.6.2.3103 standard during the September and December events, with the December event results being below the laboratory detection limit for arsenic. Consistent with historical results, exceedances of the NMAC 20.6.2.3103 standard for manganese were also documented in monitor well MW-2 during all three 2024 sampling events.

  Since no metals exceedances were documented in the MW-4/pit area during 2024, the former pit does not appear to be the source for the 2024 exceedances of the NMAC 20.6.2.3103 standards for arsenic and manganese in MW-2. As with the chloride and TDS data, the elevated arsenic and manganese concentrations appear to be the result of background conditions and/or a release source other than the pit. Further site investigation activities will be required to confirm this. As summarized in Section 1.0, above, the January 2025 *Assessment Work Plan* has included provisions to conduct further plume delineation activities and to collect background water quality data.

- ***Benzene*:** During 2024, all monitor wells were documented to contain benzene concentrations below the NMAC 20.6.2.3103 standard including monitor well MW-2 which was found to contain slightly elevated benzene concentrations during the 2022 to 2023 groundwater monitoring events.

In summary, the 2024 well gauging and analytical data were generally consistent with historic results and appear to indicate that the former pit is not the source for the elevated site groundwater COC concentrations.

3.0 PROPOSED 2025 SITE ACTIVITIES

Additional Site Assessment Activities

As referenced above, on October 24, 2024, NMOCD and EOG personnel met to discuss the subject Site and formulate a pathway for moving the project forward. Based on the meeting details, a Ranger prepared *Assessment Workplan*, dated January 28, 2025, was submitted to the NMOCD for review. An NMOCD response to the *Assessment Workplan* is currently pending. The completion of the proposed assessment activities will assist in the evaluation of the site groundwater conditions and should help confirm whether or not the pit is the source of the elevated COC concentrations or whether the elevated COC concentrations may be the result of background conditions or another historical release source.

Groundwater Sampling Activities

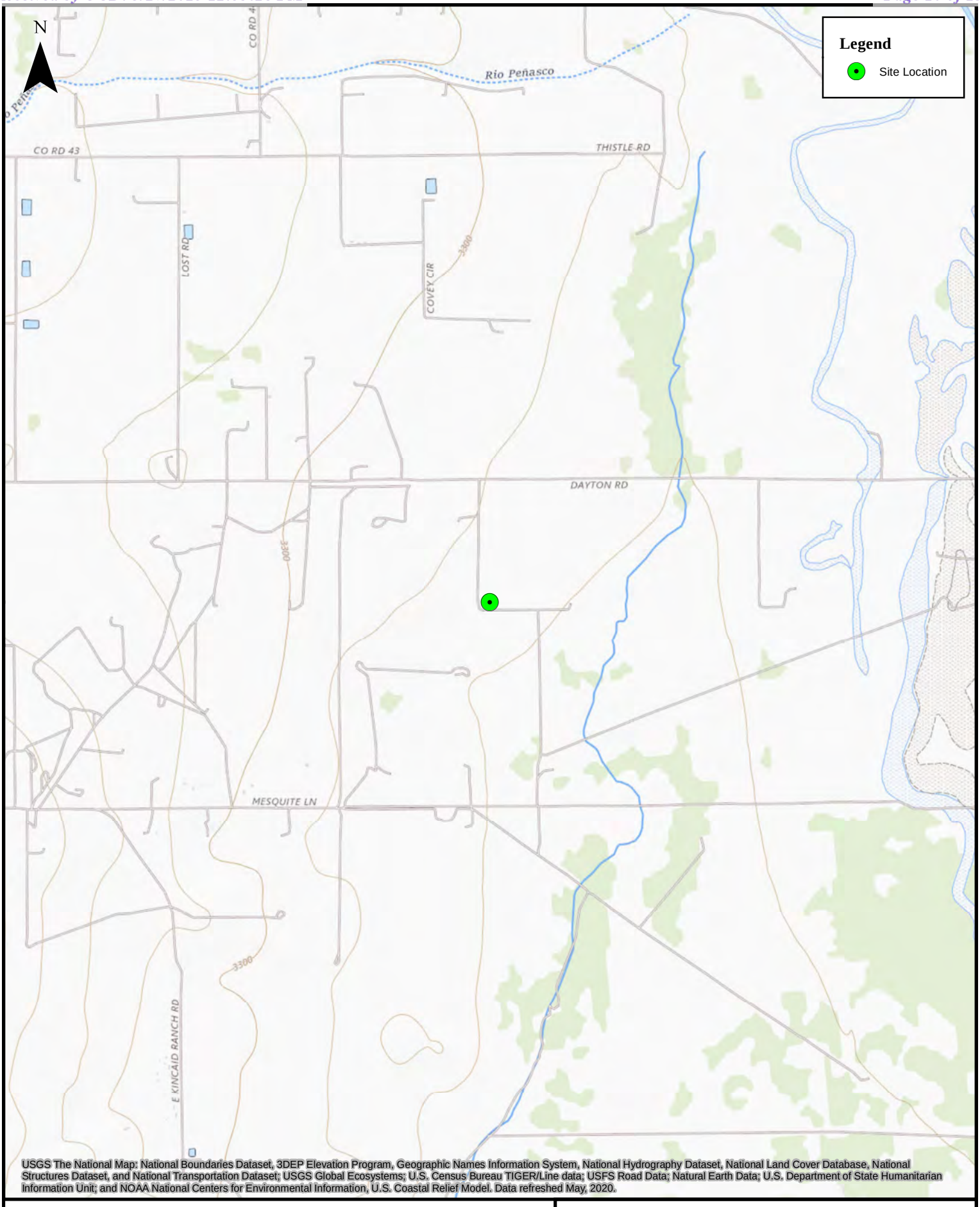
While awaiting an NMOCD response to the *Assessment Workplan*, the quarterly groundwater monitoring program recommended in the 2023 annual report will be continued. The first quarter monitoring event was completed on March 11, 2025.

As detailed in the Assessment Workplan, upon installation of the proposed additional monitor wells at the Site, the newly installed wells will be incorporated into the quarterly groundwater

monitoring program. The initial samples collected from the newly installed monitor wells will be submitted for laboratory analysis of the comprehensive historical site COC suite.

FIGURES

Topographic Map
Area Map
Site Map
Groundwater Gradient Maps
Groundwater TDS, Chloride, and Sulfate Isoconcentration Maps

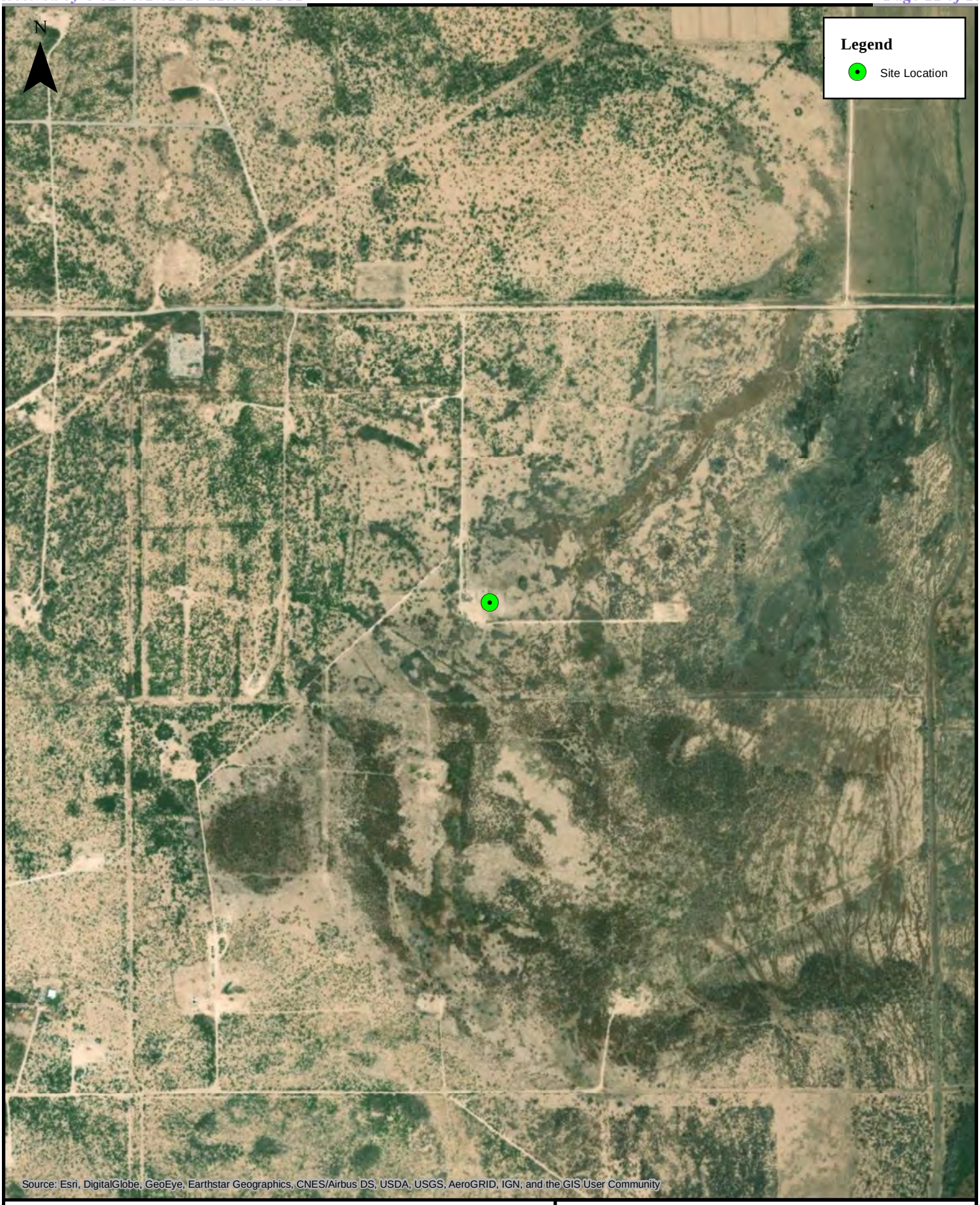


RANGER ENVIRONMENTAL SERVICES, LLC

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Williams Pit
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, LLC

0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Williams Pit
EOG Resources, Inc.

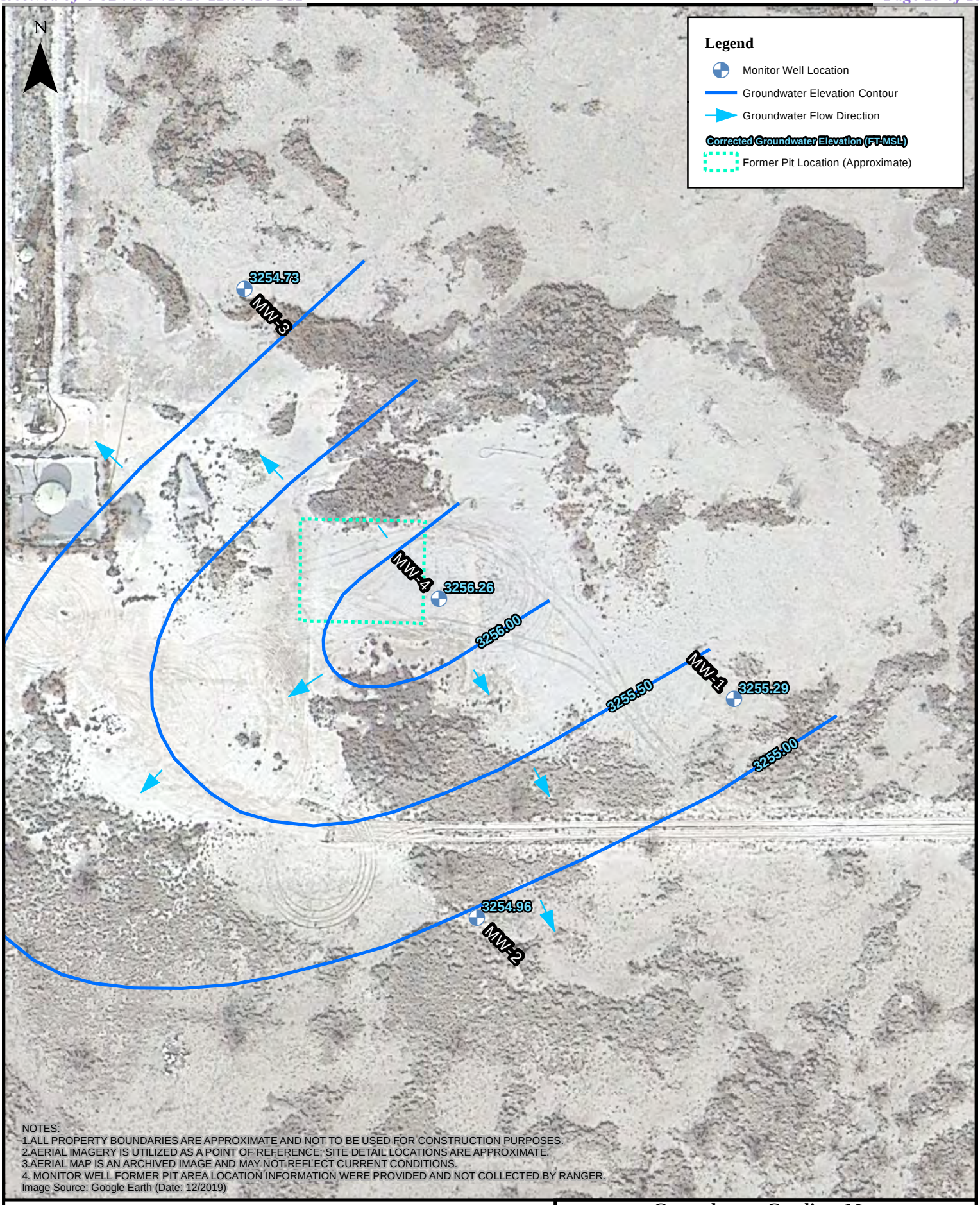
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 15 30 60 90 120 Feet

1:750

Site Map
Williams Pit
EOG Resources, Inc.



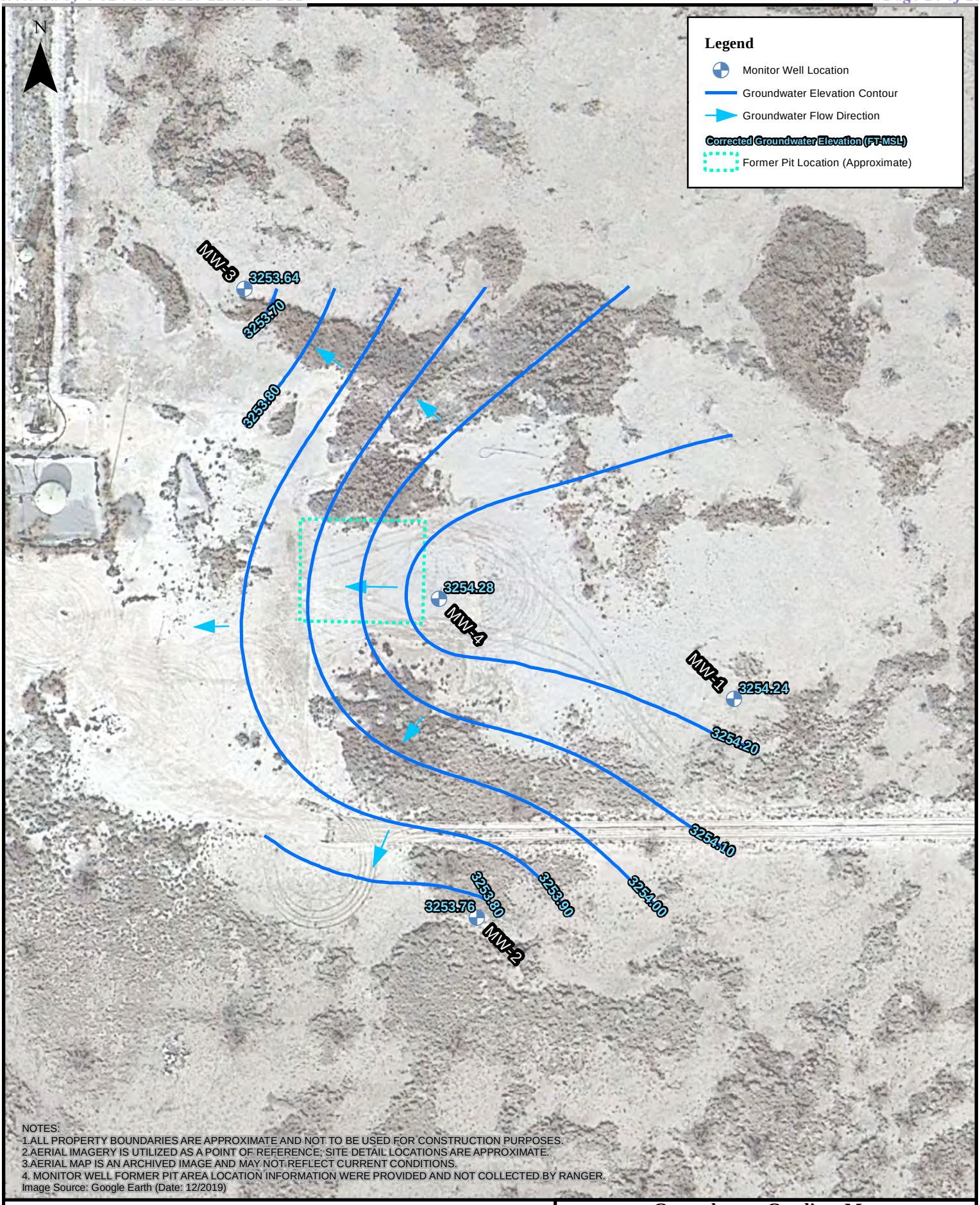
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 15 30 60 90 120 Feet

1:750

Groundwater Gradient Map
(Sample Date: 04/30/2024)
Williams Pit
EOG Resources, Inc.



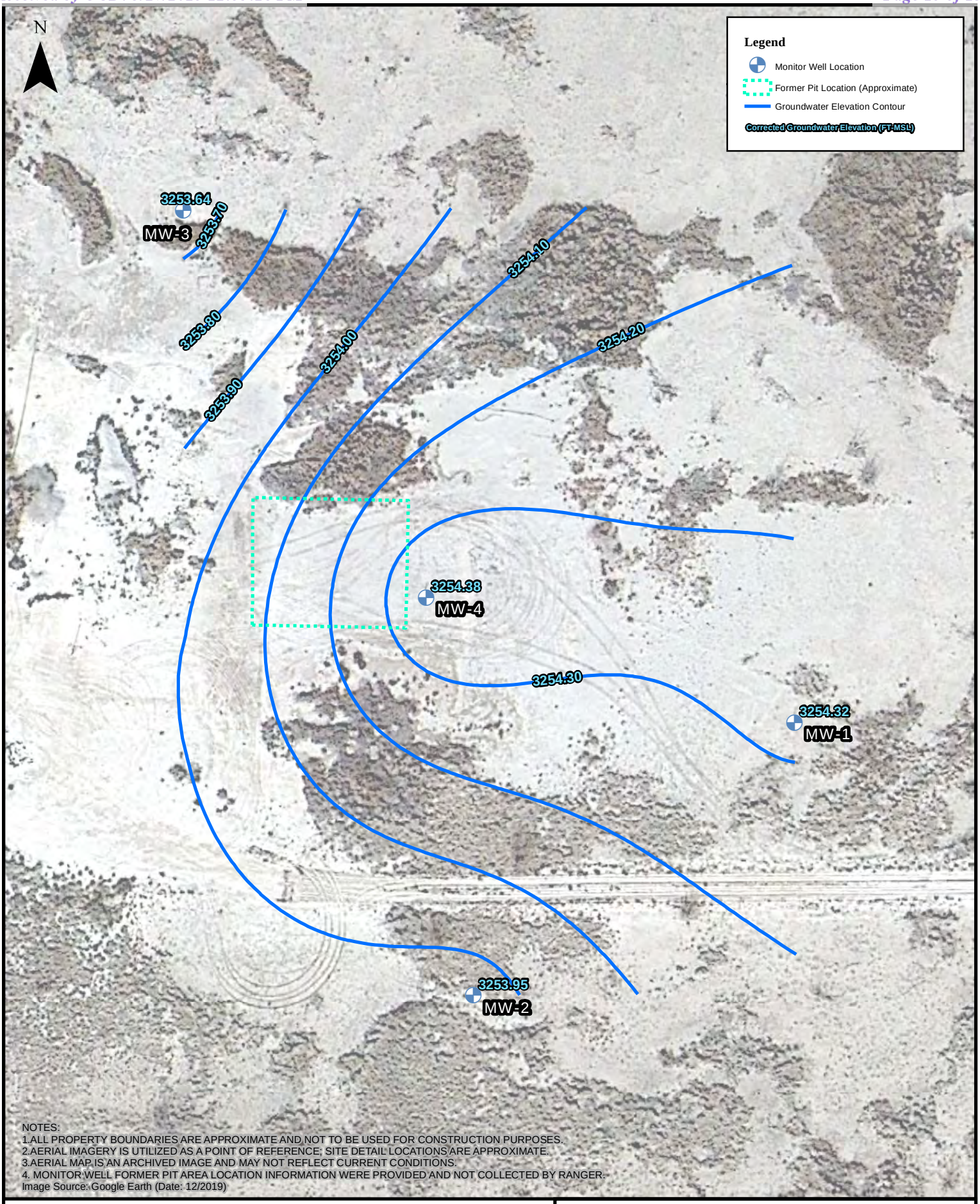
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 15 30 60 90 120 Feet

1:750

Groundwater Gradient Map
(Sample Date: 09/24/2024)
Williams Pit
EOG Resources, Inc.



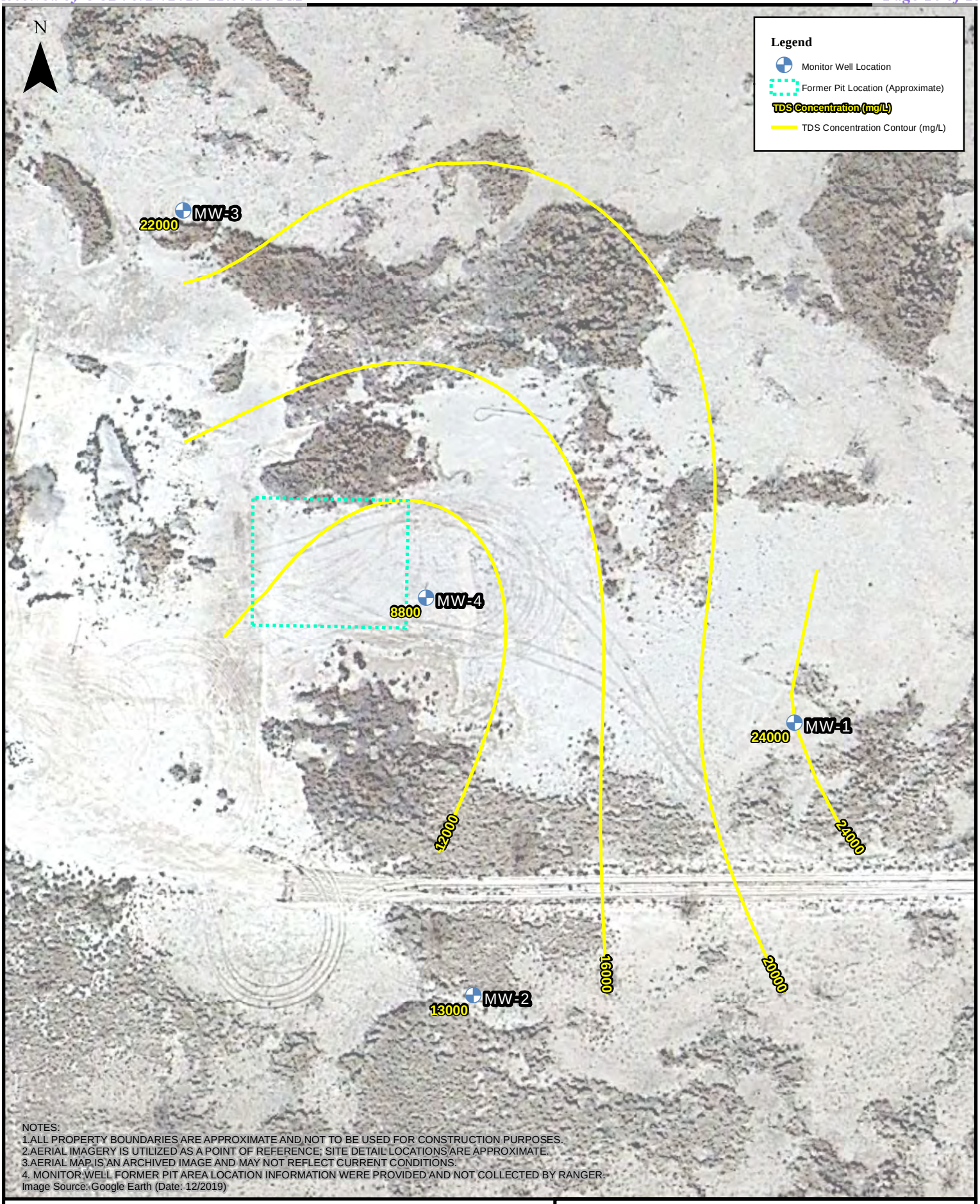
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Gradient Map
(Sample Date: 12/10/2024)
Williams Pit
EOG Resources, Inc.



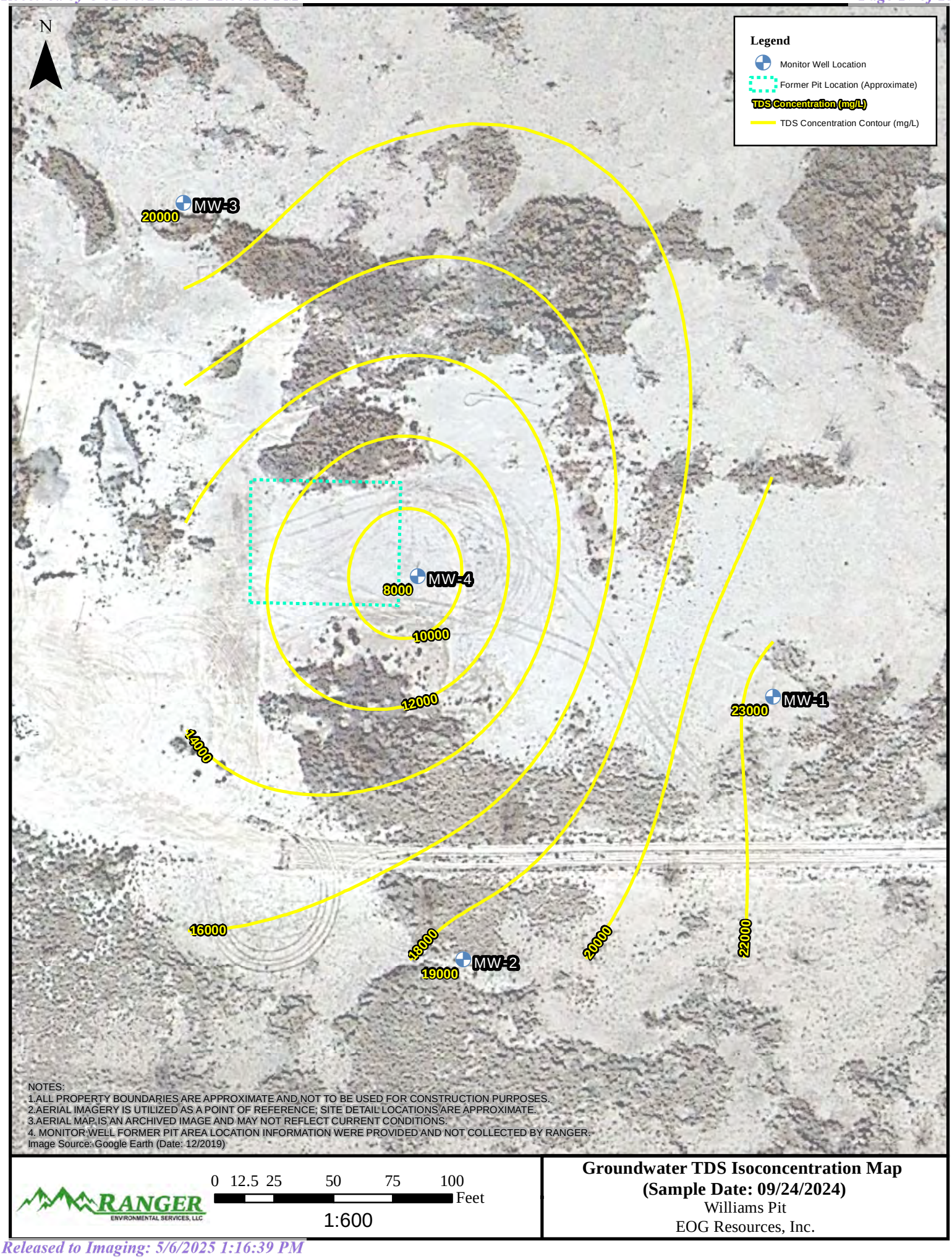
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater TDS Isoconcentration Map
(Sample Date: 04/30/2024)
Williams Pit
EOG Resources, Inc.



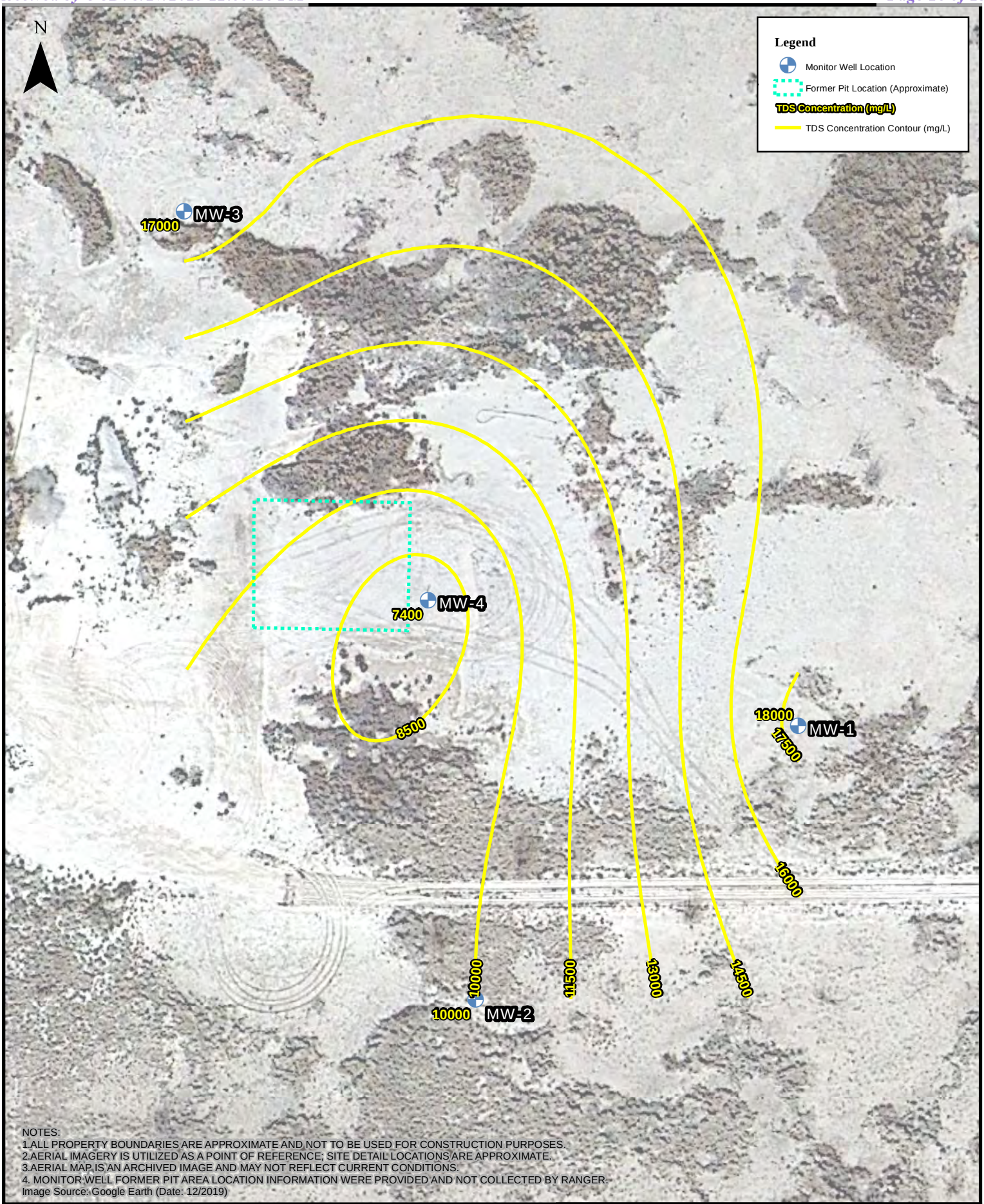
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater TDS Isoconcentration Map
(Sample Date: 09/24/2024)
Williams Pit
EOG Resources, Inc.



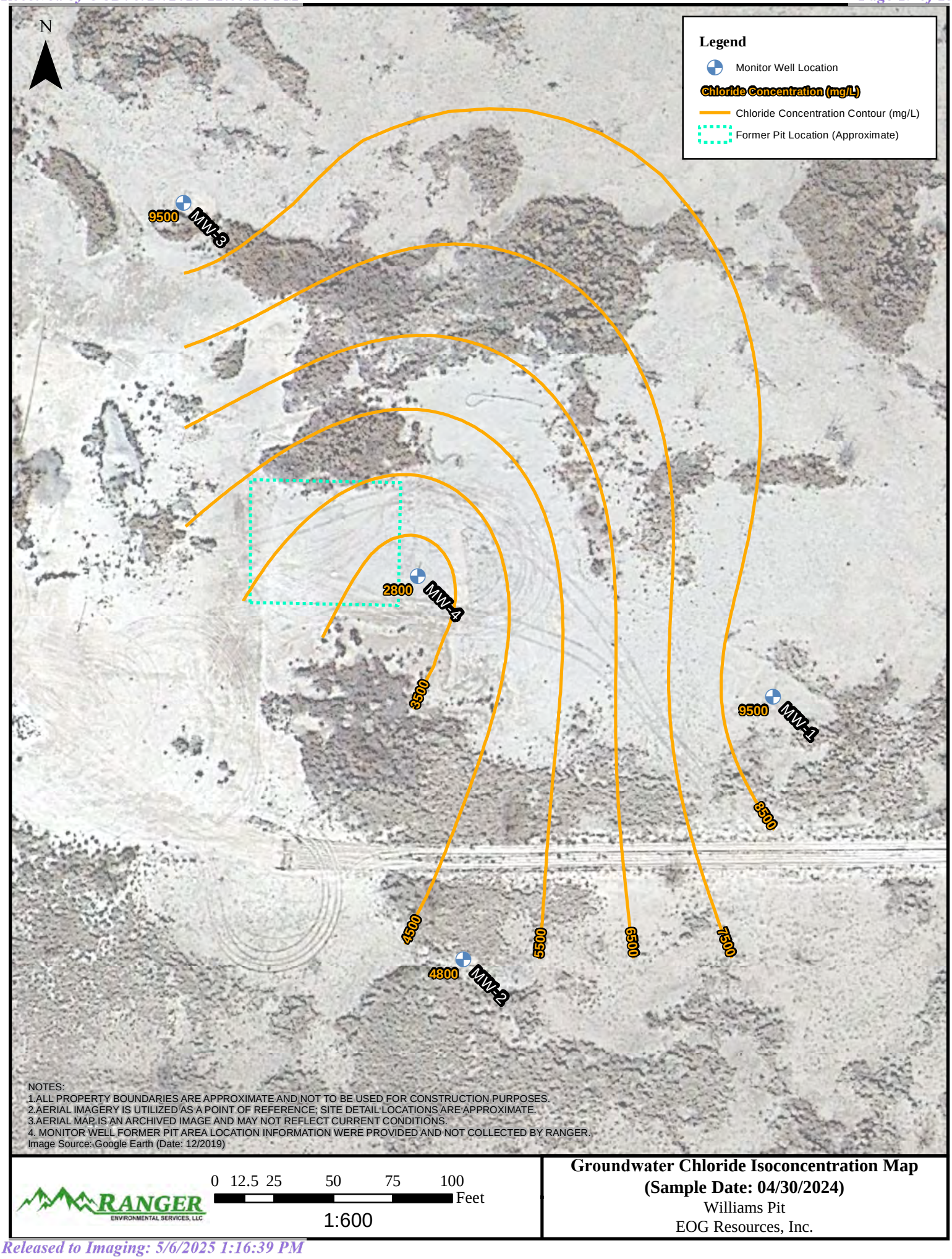
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater TDS Isoconcentration Map
(Sample Date: 12/10/2024)
Williams Pit
EOG Resources, Inc.



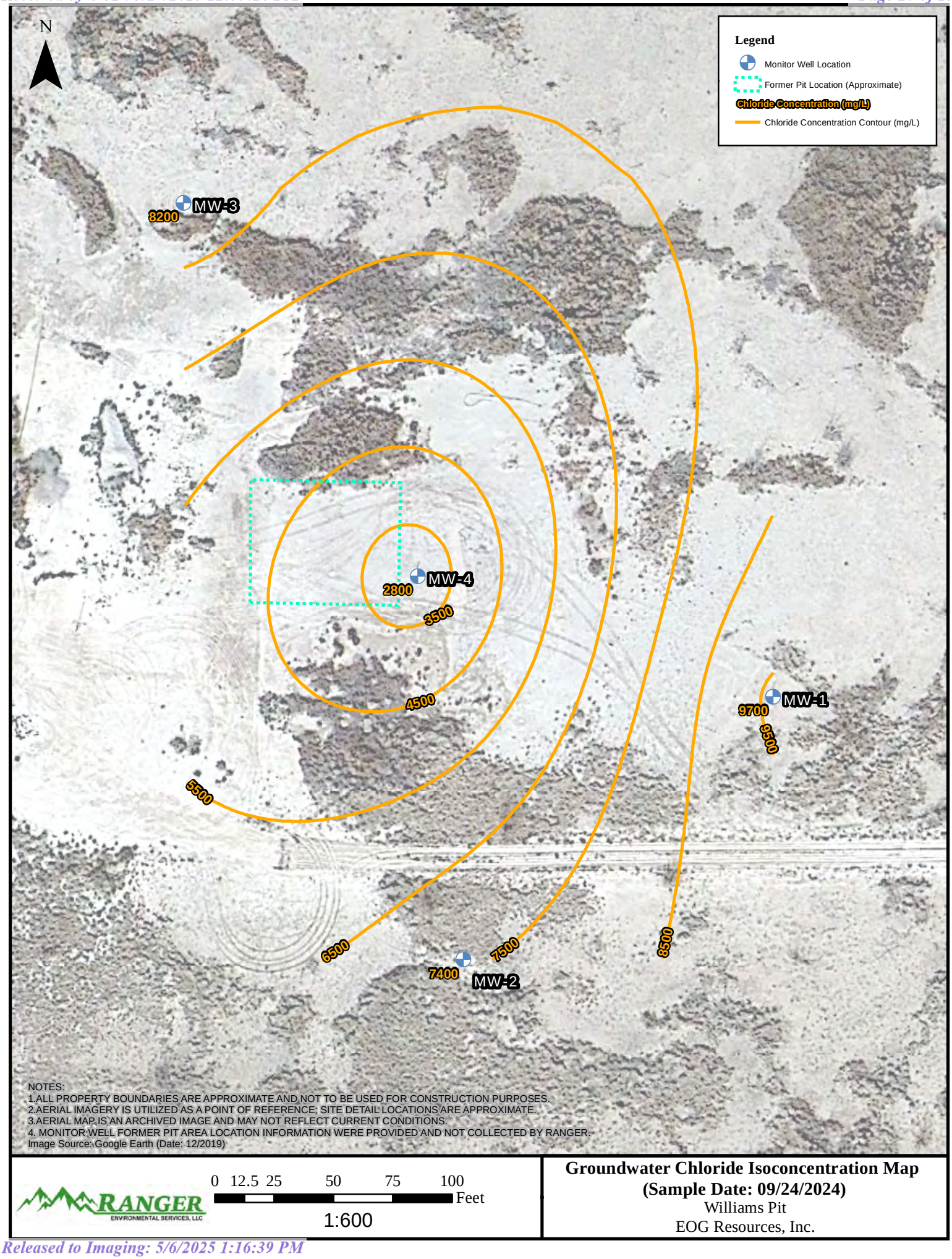
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Chloride Isoconcentration Map
(Sample Date: 04/30/2024)
Williams Pit
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Chloride Isoconcentration Map
(Sample Date: 09/24/2024)
Williams Pit
EOG Resources, Inc.

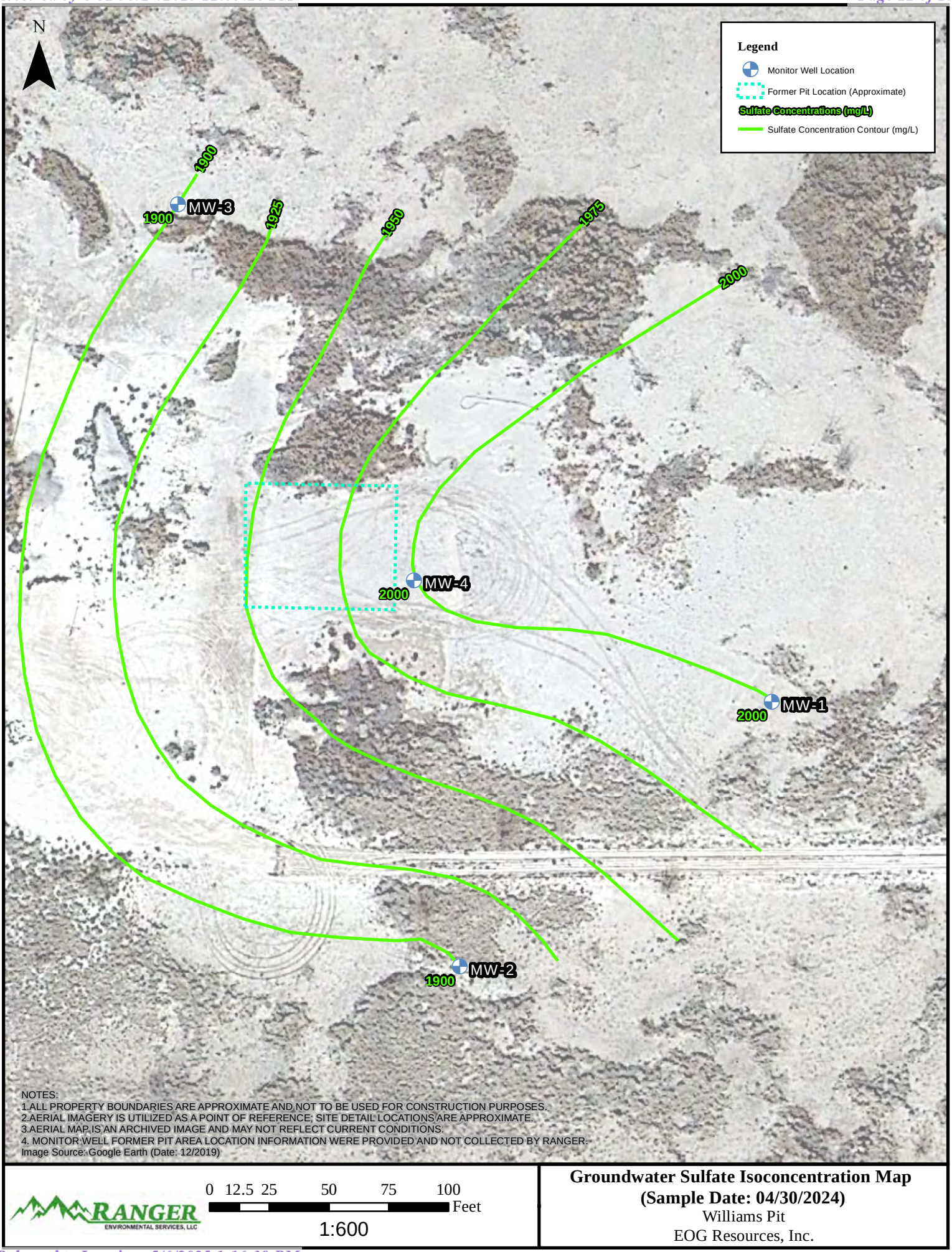
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Chloride Isoconcentration Map
(Sample Date: 12/10/2024)
Williams Pit
EOG Resources, Inc.



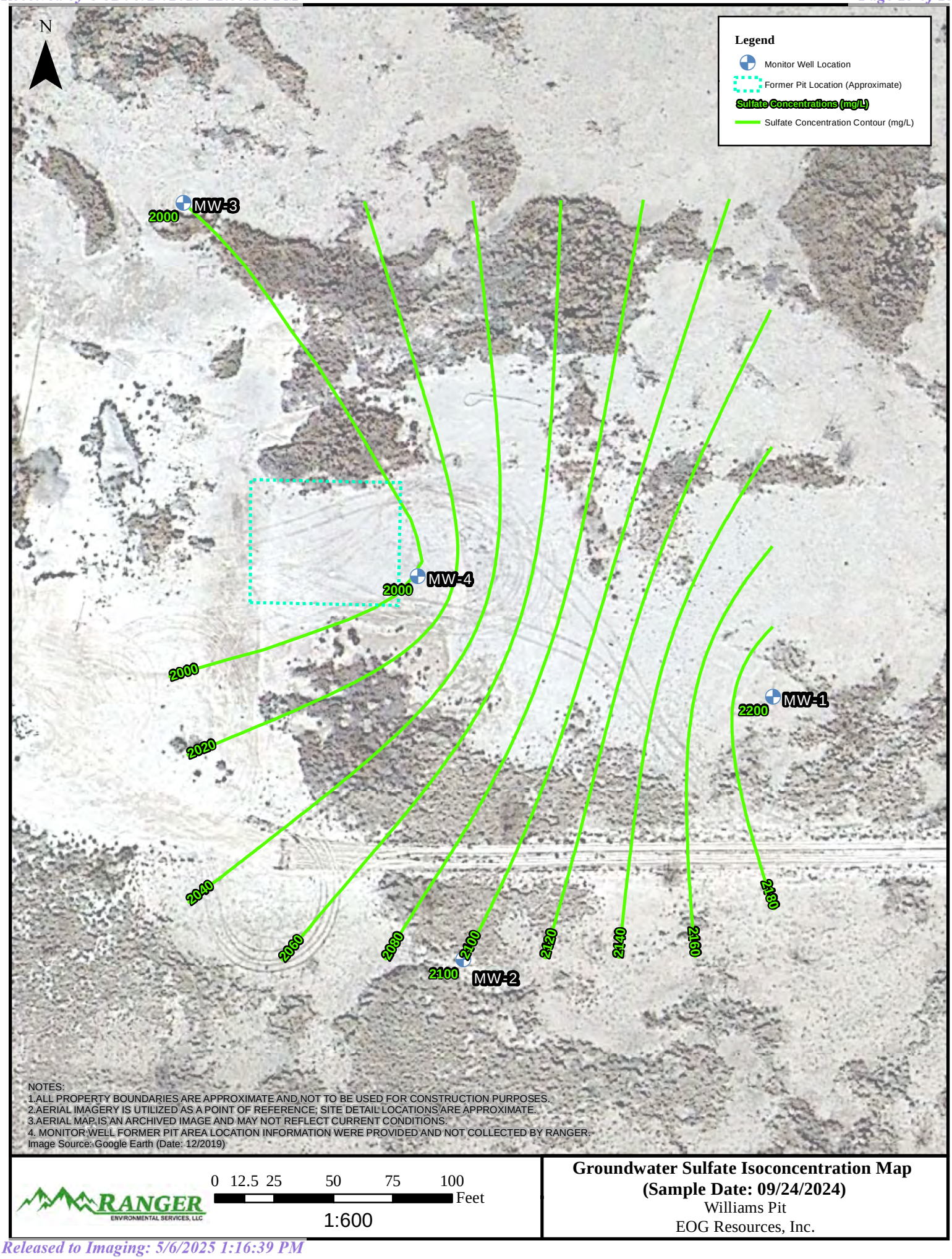
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Sulfate Isoconcentration Map
(Sample Date: 04/30/2024)
Williams Pit
EOG Resources, Inc.



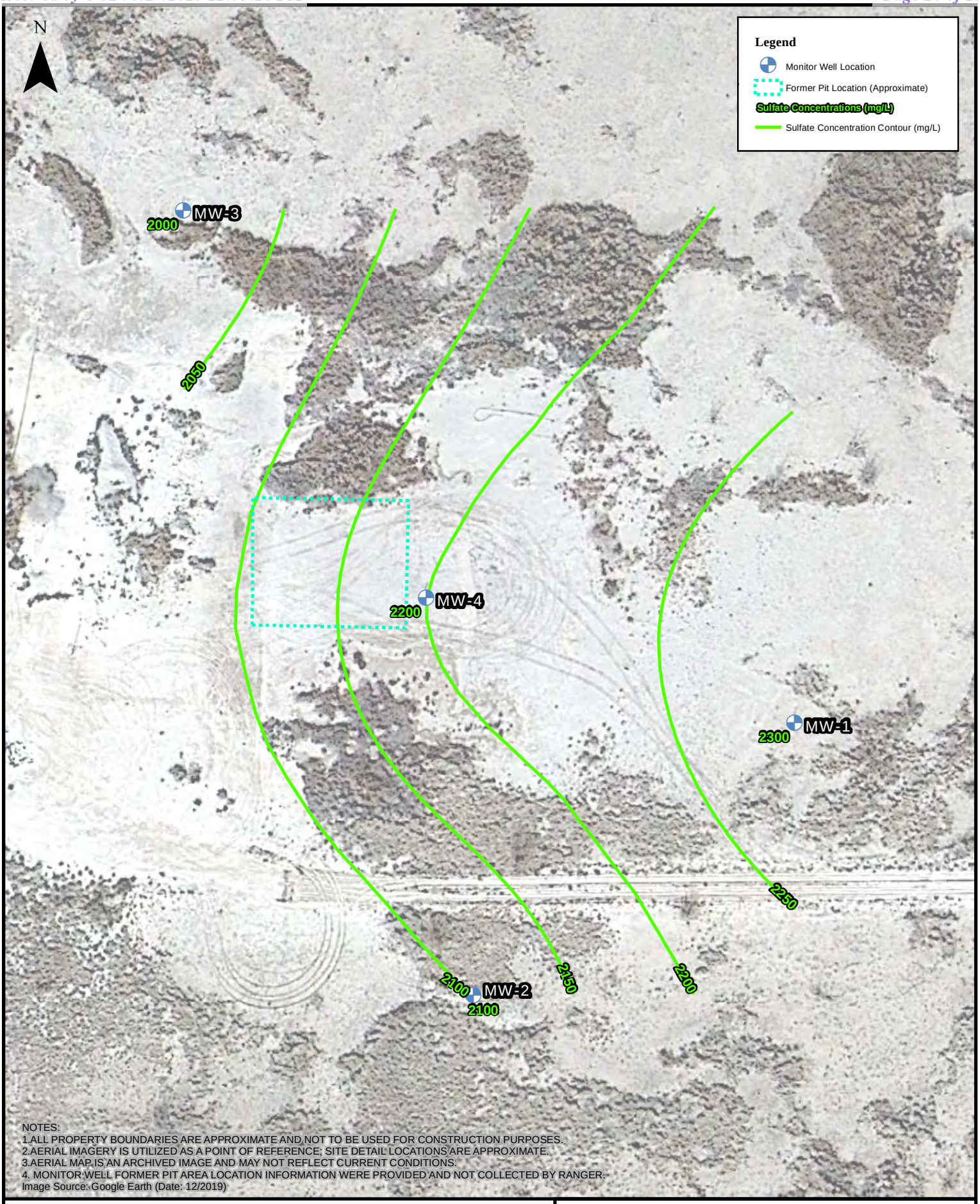
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Sulfate Isoconcentration Map
(Sample Date: 09/24/2024)
Williams Pit
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Groundwater Sulfate Isoconcentration Map
(Sample Date: 12/10/2024)
Williams Pit
EOG Resources, Inc.

TABLES

Cumulative Well Gauging Data
Cumulative Groundwater EPA Method 300.0: Anions
Cumulative Groundwater Dissolved Metals (Table 1 of 2)
Cumulative Groundwater Dissolved Metals (Table 2 of 2)
Cumulative Groundwater TPH and VOC Data Summary
Cumulative Groundwater Specific Conductance, pH, Alkalinity, and TDS

WELL GAUGING DATA
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
MW-1	9/18/2002	3282.57	31.92	0.00	3250.65	20'-40'
MW-1	9/19/2002	3282.57	32.05	0.00	3250.52	20'-40'
MW-1	11/8/2004	3282.57	30.99	0.00	3251.58	20'-40'
MW-1	12/1/2004	3282.57	30.40	0.00	3252.17	20'-40'
MW-1	12/15/2004	3282.57	30.08	0.00	3252.49	20'-40'
MW-1	12/21/2004	3282.57	29.99	0.00	3252.58	20'-40'
MW-1	12/30/2004	3282.57	29.73	0.00	3252.84	20'-40'
MW-1	3/6/2018	3282.57	23.06	0.00	3259.51	20'-40'
MW-1	3/28/2018	3282.57	23.15	0.00	3259.42	20'-40'
MW-1	3/11/2019	3283.94	24.31	0.00	3259.63	20'-40'
MW-1	10/29/2019	3283.94	25.14	0.00	3258.80	20'-40'
MW-1	9/18/2020	3283.94	25.46	0.00	3258.48	20'-40'
MW-1	8/23/2021	3283.94	25.23	0.00	3258.71	20'-40'
MW-1	11/28/2023	3283.94	28.74	0.00	3255.20	20'-40'
MW-1	04/30/2024	3283.94	28.65	0.00	3255.29	20'-40'
MW-1	09/24/2024	3283.94	29.70	0.00	3254.24	20'-40'
MW-1	12/10/2024	3283.94	29.62	0.00	3254.32	20'-40'

WELL GAUGING DATA
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
MW-2	9/18/2002	3282.34	32.08	0.00	3250.26	23'-43'
MW-2	9/19/2002	3282.34	31.85	0.00	3250.49	23'-43'
MW-2	11/8/2004	3282.34	30.76	0.00	3251.58	23'-43'
MW-2	12/1/2004	3282.34	30.42	0.00	3251.92	23'-43'
MW-2	12/15/2004	3282.34	30.20	0.00	3252.14	23'-43'
MW-2	12/21/2004	3282.34	30.03	0.00	3252.31	23'-43'
MW-2	12/30/2004	3282.34	29.88	0.00	3252.46	23'-43'
MW-2	3/6/2018	3282.34	22.85	0.00	3259.49	23'-43'
MW-2	3/28/2018	3282.34	22.97	0.00	3259.37	23'-43'
MW-2	3/11/2019	3283.66	24.12	0.00	3259.54	23'-43'
MW-2	10/29/2019	3283.66	25.17	0.00	3258.49	23'-43'
MW-2	9/18/2020	3283.66	25.41	0.00	3258.25	23'-43'
MW-2	8/23/2021	3283.66	25.33	0.00	3258.33	23'-43'
MW-2	11/28/2023	3283.66	28.98	0.00	3254.68	23'-43'
MW-2	04/30/2024	3283.66	28.70	0.00	3254.96	23'-43'
MW-2	09/24/2024	3283.66	29.90	0.00	3253.76	23'-43'
MW-2	12/10/2024	3283.66	29.71	0.00	3253.95	23'-43'

WELL GAUGING DATA
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
MW-3	9/18/2002	3282.98	32.35	0.00	3250.63	15'-35'
MW-3	9/19/2002	3282.98	32.38	0.00	3250.60	15'-35'
MW-3	11/8/2004	3282.98	31.06	0.00	3251.92	15'-35'
MW-3	12/1/2004	3282.98	30.00	0.00	3252.98	15'-35'
MW-3	12/15/2004	3282.98	30.10	0.00	3252.88	15'-35'
MW-3	12/21/2004	3282.98	29.98	0.00	3253.00	15'-35'
MW-3	12/30/2004	3282.98	29.96	0.00	3253.02	15'-35'
MW-3	3/6/2018	3282.98	23.70	0.00	3259.28	15'-35'
MW-3	3/28/2018	3282.98	23.73	0.00	3259.25	15'-35'
MW-3	3/11/2019	3284.35	24.96	0.00	3259.39	15'-35'
MW-3	10/29/2019	3284.35	25.97	0.00	3258.38	15'-35'
MW-3	9/18/2020	3284.35	26.15	0.00	3258.20	15'-35'
MW-3	8/23/2021	3284.35	26.03	0.00	3258.32	15'-35'
MW-3	11/28/2023	3284.35	29.74	0.00	3254.61	15'-35'
MW-3	04/30/2024	3284.35	29.62	0.00	3254.73	15'-35'
MW-3	09/24/2024	3284.35	30.71	0.00	3253.64	15'-35'
MW-3	12/10/2024	3284.35	30.71	0.00	3253.64	15'-35'

WELL GAUGING DATA
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
MW-4	9/18/2002	3282.70	31.70	0.00	3251.00	23'-38'
MW-4	9/19/2002	3282.70	31.72	0.00	3250.98	23'-38'
MW-4	11/8/2004	3282.70	30.89	0.00	3251.81	23'-38'
MW-4	12/1/2004	3282.70	31.16	0.00	3251.54	23'-38'
MW-4	12/15/2004	3282.70	30.23	0.00	3252.47	23'-38'
MW-4	12/21/2004	3282.70	30.12	0.00	3252.58	23'-38'
MW-4	12/30/2004	3282.70	29.94	0.00	3252.76	23'-38'
MW-4	3/6/2018	3282.70	23.02	0.00	3259.68	23'-38'
MW-4	3/28/2018	3282.70	23.94	0.00	3258.76	23'-38'
MW-4	3/11/2019	3284.08	23.35	0.00	3260.73	23'-38'
MW-4	10/29/2019	3284.08	28.03	0.00	3256.05	23'-38'
MW-4	9/18/2020	3284.08	25.56	0.00	3258.52	23'-38'
MW-4	8/23/2021	3284.08	25.35	0.00	3258.73	23'-38'
MW-4	11/28/2023	3284.08	28.83	0.00	3255.25	23'-38'
MW-4	4/30/2024	3284.08	27.82	0.00	3256.26	23'-38'
MW-4	9/24/2024	3284.08	29.80	0.00	3254.28	23'-38'
MW-4	12/10/2024	3284.08	29.70	0.00	3254.38	23'-38'

Notes:
1. Elevations referenced to a temporary on-site benchmark.
2. BTOC = below top of casing

GROUNDWATER EPA METHOD 300.0: ANIONS
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L) unless otherwise noted

SAMPLE ID	DATE	Fluoride	Chloride	Bromide	Phosphorus, Orthophosphate (As P)	Sulfate	Nitrogen, Nitrite (As N)	Nitrogen, Nitrate (As N)	Nitrate+Nitrite as N
SB-5	10/21/2000	---	30,842	---	---	---	---	---	---
MW-1	9/19/2002	---	26,600	---	---	---	---	---	---
MW-1	11/8/2004	---	26,992	---	---	---	---	---	---
MW-1	3/17/2012	< 2.0	950	1.3	< 0.50	2,100	---	---	1.7
MW-1	6/18/2012	0.73	1,100	1.8	< 0.50	2,200	---	---	1
MW-1	9/12/2012	0.21	2,200	1.8	< 10	2,200	---	---	< 4.0
MW-1	12/7/2012	< 2.0	2,000	< 2.0	< 10	2,100	---	---	2.5
MW-1	3/12/2013	0.76	1,200	< 2.0	< 10	2,200	---	---	1.7
MW-1	6/27/2013	< 0.50	1,100	1.4	< 0.50	2,000	---	---	2.1
MW-1	3/28/2018	0.13	1,000	1.4	< 10	2,400	---	---	2.6
MW-1	3/11/2019	< 2.0	920	< 2.0	< 10	2,100	---	---	2.4
MW-1	10/29/2019	< 1.0	910	1.4	< 5.0	2,000	<1.0	2.3	---
MW-1	9/18/2020	0.55	960	1.4	< 2.5	2,100	---	---	2.3
MW-1	8/23/2021	< 1.0	980	1.5	< 5.0	2,300	---	---	2.4
MW-1	3/22/2022	0.5	4,400	2.3	< 2.5	2,100	---	---	2.3
MW-1	8/3/2022	< 2.0	5,400	3.6	< 10	2,100	---	---	< 4.0
MW-1	11/28/2023	<2.0	9,400	4.4	<10	2,300	---	---	<10
MW-1	04/30/2024	---	9,500	---	---	2,000	---	---	---
MW-1	09/24/2024	---	9,700	---	---	2,200	---	---	---
MW-1	12/10/2024	---	8,500	---	---	2,300	---	---	---
MW-2	9/19/2002	---	13,300	---	---	---	---	---	---
MW-2	11/8/2004	---	19,994	---	---	---	---	---	---
MW-2	3/17/2012	< 2.0	3,300	2.2	< 0.50	2,200	---	---	< 4.0
MW-2	6/18/2012	0.58	3,700	3.6	< 0.50	2,200	---	---	< 2.0
MW-2	9/12/2012	< 2.0	3,900	< 2.0	< 10	2,200	---	---	< 4.0
MW-2	12/7/2012	< 2.0	2,800	< 2.0	< 10	2,000	---	---	< 4.0
MW-2	3/12/2013	< 2.0	3,500	2.2	< 10	2,200	---	---	< 4.0
MW-2	6/27/2013	< 0.50	3,100	1.7	< 0.50	2,000	---	---	< 4.0
MW-2	3/28/2018	< 2.0	5,400	3	< 0.50	2,400	---	---	< 4.0
MW-2	3/11/2019	< 2.0	4,600	2.2	< 10	1,900	---	---	< 4.0
MW-2	10/29/2019	< 1.0	3,900	2.5	< 5.0	2,100	<1.0	1.9	---
MW-2	9/18/2020	< 0.50	4,200	2.6	< 2.5	2,000	---	---	< 4.0
MW-2	8/23/2021	< 1.0	4,000	2.7	< 5.0	2,300	---	---	< 2.0
MW-2	3/22/2022	< 0.50	5,100	2.8	< 2.5	2,000	---	---	1.7
MW-2	8/3/2022	< 2.0	8,200	5.3	< 10	2,200	---	---	< 10
MW-2	11/28/2023	< 2.0	8,500	4.6	<10	2,200	---	---	< 10
MW-2	04/30/2024	---	4,800	---	---	1,900	---	---	---
MW-2	09/24/2024	---	7,400	---	---	2,100	---	---	---
MW-2	12/10/2024	---	4,200	---	---	2,100	---	---	---

GROUNDWATER EPA METHOD 300.0: ANIONS
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L) unless otherwise noted

SAMPLE ID	DATE	Fluoride	Chloride	Bromide	Phosphorus, Orthophosphate (As P)	Sulfate	Nitrogen, Nitrite (As N)	Nitrogen, Nitrate (As N)	Nitrate+Nitrite as N
MW-3	9/19/2002	---	**33,700**	---	---	---	---	---	---
MW-3	11/8/2004	---	**35,989**	---	---	---	---	---	---
MW-3	3/17/2012	< 2.0	**26,000**	8.2	< 10	**1,900**	---	---	< 100
MW-3	6/18/2012	< 2.0	**26,000**	14	< 10	**1,900**	---	---	< 10
MW-3	9/12/2012	< 1.0	**20,000**	< 10	< 50	**2,000**	---	---	< 4.0
MW-3	12/7/2012	< 2.0	**17,000**	11	< 10	**1,600**	---	---	< 20
MW-3	3/12/2013	< 2.0	**19,000**	3.1	< 10	**1,900**	---	---	< 20
MW-3	6/27/2013	< 1.0	**16,000**	6.3	< 10	**1,800**	---	---	< 10
MW-3	3/28/2018	< 1.0	**16,000**	4.9	< 5.0	**2,400**	---	---	< 10
MW-3	3/11/2019	< 2.0	**12,000**	3.4	< 10	**1,700**	---	---	< 10
MW-3	10/29/2019	< 1.0	**11,000**	4	< 5.0	**2,000**	<10	< 1.0	---
MW-3	9/18/2020	< 2.0	**13,000**	5.2	< 10	**2,100**	---	---	< 10
MW-3	8/23/2021	< 1.0	**13,000**	5.3	< 5.0	**2,300**	---	---	< 10
MW-3	3/22/2022	< 2.0	**12,000**	4.7	< 10	**2,100**	---	---	< 10
MW-3	8/3/2022	< 2.0	**9,200**	5.7	< 10	**2,100**	---	---	< 10
MW-3	11/28/2023	< 2.0	**9,700**	5.4	<10	**2,100**	---	---	< 4.0
MW-3	04/30/2024	---	**9,500**	---	---	**1,900**	---	---	---
MW-3	09/24/2024	---	**8,200**	---	---	**2,000**	---	---	---
MW-3	12/10/2024	---	**8,000**	---	---	**2,000**	---	---	---
MW-4	9/19/2002	---	**8,150**	---	---	---	---	---	---
MW-4	11/8/2004	---	**6,098**	---	---	---	---	---	---
MW-4	3/17/2012	< 2.0	**3,600**	2.7	< 0.50	**2,200**	---	---	< 4.0
MW-4	6/18/2012	0.56	**3,300**	5.3	< 0.50	**2,200**	---	---	< 2.0
MW-4	9/12/2012	< 2.0	**4,000**	< 2.0	< 10	**2,300**	---	---	< 4.0
MW-4	12/7/2012	< 2.0	**3,100**	< 2.0	< 0.50	**2,100**	---	---	< 4.0
MW-4	3/12/2013	< 2.0	**3,100**	2.4	< 10	**2,200**	---	---	< 2.0
MW-4	6/27/2013	< 0.50	**2,500**	2.1	< 0.50	**2,100**	---	---	< 4.0
MW-4	3/28/2018	< 2.0	**5,100**	3	< 0.50	**2,300**	---	---	< 4.0
MW-4	3/11/2019	< 2.0	**3,600**	< 2.0	< 10	**1,900**	---	---	< 4.0
MW-4	10/29/2019	< 1.0	**3,200**	2.3	< 5.0	**2,100**	< 1.0	1.9	---
MW-4	9/18/2020	< 0.50	**3,500**	2.5	< 2.5	**2,000**	---	---	< 4.0
MW-4	8/23/2021	< 1.0	**3,100**	2.6	< 5.0	**2,300**	---	---	< 2.0
MW-4	3/22/2022	< 2.0	**3,200**	2.4	< 10	**1,900**	---	---	1.7
MW-4	8/3/2022	< 2.0	**3,300**	3.8	< 10	**2,100**	---	---	< 4.0
MW-4	11/28/2023	< 2.0	**3,200**	2.5	<0.50	**2,200**	---	---	< 4.0
MW-4	04/30/2024	---	**2,800**	---	---	**2,000**	---	---	---
MW-4	09/24/2024	---	**2,800**	---	---	**2,000**	---	---	---
MW-4	12/10/2024	---	**2,600**	---	---	**2,200**	---	---	---
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)				**---**	**---**				
A. Human Health Standards		**1.6**					**1**	**10**	**10** [1]
B. Other Standards for Domestic Water Supply			**250**			**600**			
C. Standards for Irrigation Use									

Notes:
1. This standarad is for nitrate. The nitrite standard is 1.0 mg/L.
2. Exceedances of the listed closure criteria are highlighted in bold, red type.

GROUNDWATER DISSOLVED METALS (TABLE 1 OF 2)
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Aluminum	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Iron	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Zinc
MW-1	3/17/2012	---	0.008	---	---	< 0.0020	770	< 0.0060	---	0.023	270	0.0041	---	---	2.9	< 0.0050	410	0.017
MW-1	6/18/2012	---	0.01	---	---	< 0.0020	790	< 0.0060	---	0.031	260	0.0033	---	---	2.9	< 0.0050	460	0.012
MW-1	9/12/2012	---	0.0092	---	---	< 0.0020	690	< 0.0060	---	0.039	250	0.0072	---	---	2.7	< 0.0050	520	0.025
MW-1	12/7/2012	---	0.014	---	---	< 0.0020	810	< 0.0060	---	0.41	270	0.018	---	---	5.1	< 0.0050	930	0.022
MW-1	3/12/2013	---	0.0086	---	---	< 0.0020	710	< 0.0060	---	0.039	230	0.0043	---	---	3.5	< 0.0050	510	0.018
MW-1	6/27/2013	---	0.0084	---	---	< 0.0020	800	< 0.0060	---	0.027	250	0.0034	---	---	3.5	< 0.050	520	0.013
MW-1	3/28/2018	---	0.0074	---	---	< 0.010	760	< 0.030	---	< 0.10	290	0.0024	---	---	2.7	0.03	380	< 0.050
MW-1	3/11/2019	0.03	0.0071	---	---	< 0.0020	680	< 0.0060	---	0.058	260	0.0045	---	---	2.7	0.012	360	0.018
MW-1	10/29/2019	< 0.020	0.0058	---	---	< 0.0020	750	< 0.0060	---	< 0.020	260	0.038	---	---	2.7	0.019	360	0.033
MW-1	9/18/2020	< 0.10	0.011	< 0.010	< 0.20	< 0.010	820	< 0.030	< 0.030	< 0.10	280	< 0.010	< 0.040	< 0.050	< 5.0	< 0.025	420	< 0.050
MW-1	8/23/2021	< 0.020	0.0068	< 0.0020	0.15	< 0.0020	690	< 0.0060	< 0.0060	0.037	260	0.0056	< 0.0080	< 0.010	2.9	< 0.0050	340	0.055
MW-1	3/22/2022	< 0.020	0.014	< 0.0020	0.13	< 0.0020	1,100	< 0.0060	0.0086	0.043	380	0.0046	< 0.040	< 0.010	5.2	0.0061	2,100	0.012
MW-1	8/3/2022	< 0.020	0.016	< 0.0020	0.1	< 0.0020	1,300	< 0.0060	< 0.0060	0.059	420	0.0066	< 0.0080	< 0.010	5.2	0.021	3,100	0.022
MW-1	11/28/2023	0.027	0.015	<0.0020	0.082	<0.0020	1,500	<0.0060	<0.0060	0.024	460	<0.0020	<0.0080	< 0.010	6	0.034	4,700	<0.010
MW-1	4/30/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	<0.0020	---	---	---	0.015	---	---
MW-1	9/24/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	<0.0020	---	---	---	0.042	---	---
MW-1	12/10/2024	---	---	---	---	---	---	<0.060	---	<0.50	---	<0.020	---	---	---	<0.050	---	---
MW-2	3/17/2012	---	0.014	---	---	< 0.0020	910	< 0.0060	---	0.85	320	**1.1**	---	---	10	< 0.0050	1,800	0.041
MW-2	6/18/2012	---	0.023	---	---	< 0.0020	990	0.0071	---	0.41	330	**1.3**	---	---	9.8	< 0.0050	1,800	0.058
MW-2	9/12/2012	---	0.038	---	---	< 0.0020	840	**0.1**	---	**7.9**	280	**1.4**	---	---	11	< 0.0050	1,800	0.053
MW-2	12/7/2012	---	0.013	---	---	< 0.0020	900	< 0.0060	---	0.09	310	**1.2**	---	---	14	< 0.0050	1,900	0.11
MW-2	3/12/2013	---	0.011	---	---	< 0.0020	790	< 0.0060	---	0.084	280	**1.1**	---	---	12	< 0.0050	1,800	< 0.010
MW-2	6/27/2013	---	0.011	---	---	< 0.0020	850	< 0.0060	---	0.033	280	**1.1**	---	---	11	< 0.25	1,900	< 0.010
MW-2	3/28/2018	---	<0.010	---	---	<0.010	950	< 0.030	---	< 0.10	380	**1.1**	---	---	9.3	0.037	2,400	< 0.050
MW-2	3/11/2019	<0.020	0.011	---	---	< 0.0020	890	< 0.0060	---	0.046	340	**0.88**	---	---	9.6	0.015	2,500	0.019
MW-2	10/29/2019	0.45	0.011	---	---	< 0.0020	910	< 0.0060	---	0.27	330	**0.82**	---	---	10	0.023	2,100	0.062
MW-2	9/18/2020	< 0.10	0.015	< 0.010	0.21	< 0.010	860	< 0.030	< 0.030	< 0.10	330	**0.72**	< 0.040	< 0.050	11	< 0.025	2,400	< 0.050
MW-2	8/23/2021	< 0.10	0.01	< 0.010	0.21	< 0.010	770	< 0.030	< 0.030	0.036	300	**0.72**	< 0.040	< 0.050	9.6	< 0.025	2,100	< 0.050
MW-2	3/22/2022	< 0.10	< 0.010	< 0.010	0.21	< 0.010	950	< 0.030	< 0.030	< 0.020	360	**0.76**	< 0.040	< 0.050	11	< 0.025	2,600	< 0.050
MW-2	8/3/2022	< 0.020	0.016	< 0.0020	0.18	< 0.0020	1,200	< 0.0060	< 0.0060	0.034	400	**0.64**	< 0.0080	< 0.010	14	0.02	5,400	0.13
MW-2	11/28/2023	0.027	0.011	< 0.0020	0.14	<0.0020	1,100	<0.0060	<0.0060	0.032	380	**0.39**	< 0.0080	< 0.010	13	0.025	4,600	<0.010
MW-2	4/30/2024	---	---	---	---	---	---	<0.0060	---	0.023	---	**0.27**	---	---	---	0.0085	---	---
MW-2	9/24/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	**0.71**	---	---	---	0.033	---	---
MW-2	12/10/2024	---	---	---	---	---	---	<0.060	---	<0.50	---	**0.56**	---	---	---	<0.050	---	---
MW-3	3/17/2012	---	0.047	---	---	< 0.010	2,700	< 0.030	---	< 0.10	810	0.015	---	---	12	< 0.025	9,400	< 0.050
MW-3	6/18/2012	---	0.056	---	---	< 0.010	2,900	< 0.030	---	< 0.10	830	0.016	---	---	11	< 0.025	10,000	< 0.050
MW-3	9/12/2012	---	0.047	---	---	< 0.010	2,500	< 0.030	---	< 0.10	750	0.013	---	---	9.3	< 0.025	8,400	< 0.050
MW-3	12/7/2012	---	0.048	---	---	< 0.0020	2,200	< 0.0060	---	0.049	670	0.01	---	---	52	< 0.025	8,800	< 0.010
MW-3	3/12/2013	---	0.048	---	---	< 0.0020	2,700	< 0.0060	---	0.055	820	0.0087	---	---	19	0.0089	8,000	0.017

GROUNDWATER DISSOLVED METALS (TABLE 1 OF 2)
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Aluminum	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Iron	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Zinc
MW-3	6/27/2013	---	0.042	---	---	< 0.0020	2,400	0.0064	---	0.041	650	0.0073	---	---	16	< 0.25	8,900	< 0.010
MW-3	3/28/2018	---	0.03	---	---	< 0.010	1,400	< 0.030	---	< 0.10	510	< 0.010	---	---	7.5	**0.062**	6,100	< 0.050
MW-3	3/11/2019	< 0.020	0.028	---	---	< 0.0020	1,500	< 0.0060	---	0.025	470	0.0031	---	---	7	0.024	6,300	< 0.010
MW-3	10/29/2019	< 0.10	0.025			< 0.010	1,500	< 0.030	---	< 0.10	490	< 0.010	---	---	7.5	0.032	6,300	< 0.050
MW-3	9/18/2020	< 0.10	0.032	< 0.010	< 0.20	< 0.010	1,600	< 0.030	< 0.030	< 0.10	520	< 0.010	< 0.040	< 0.050	9.9	< 0.025	5,800	< 0.050
MW-3	8/23/2021	< 0.10	0.026	< 0.010	< 0.20	< 0.010	1,500	< 0.030	< 0.030	0.057	470	< 0.010	< 0.040	< 0.050	10	< 0.025	6,200	< 0.050
MW-3	3/22/2022	< 0.10	0.02	< 0.010	< 0.20	< 0.010	1,300	< 0.030	< 0.030	0.095	440	0.016	< 0.040	< 0.050	9.5	< 0.025	6,300	< 0.050
MW-3	8/3/2022	< 0.020	0.021	< 0.0020	0.096	< 0.0020	1,300	< 0.0060	< 0.0060	0.049	430	0.0039	< 0.0080	< 0.010	6.9	0.021	6,200	0.16
MW-3	11/28/2023	0.033	0.017	< 0.0020	0.076	< 0.0020	1,300	< 0.0060	< 0.0060	< 0.020	430	< 0.0020	<0.0080	< 0.010	6.5	0.030	5,200	< 0.010
MW-3	4/30/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	<0.0020	---	---	---	0.014	---	---
MW-3	9/24/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	<0.0020	---	---	---	0.038	---	---
MW-3	12/10/2024	---	---	---	---	---	---	<0.030	---	<0.50	---	<0.010	---	---	---	<0.050	---	---
MW-4	3/17/2012	---	0.014	---	---	< 0.0020	820	< 0.0060	---	0.11	360	0.011	---	---	18	< 0.0050	1,900	0.015
MW-4	6/18/2012	---	0.018	---	---	< 0.0020	870	< 0.0060	---	0.14	360	0.018	---	---	19	< 0.0050	1,900	0.015
MW-4	9/12/2012	---	0.016	---	---	< 0.0020	760	< 0.0060	---	0.043	340	0.19	---	---	18	< 0.0050	1,800	< 0.010
MW-4	12/7/2012	---	0.014	---	---	< 0.0020	800	< 0.0060	---	0.12	370	0.015	---	---	30	< 0.0050	1,700	< 0.010
MW-4	3/12/2013	---	0.014	---	---	< 0.0020	680	< 0.0060	---	0.07	320	0.025	---	---	19	< 0.0050	1,500	< 0.010
MW-4	6/27/2013	---	0.014	---	---	< 0.0020	810	< 0.0060	---	0.082	360	0.03	---	---	18	< 0.10	1,500	< 0.010
MW-4	3/28/2018	---	0.015	---	---	< 0.010	920	< 0.030	---	< 0.10	430	0.014	---	---	18	0.04	2,300	< 0.050
MW-4	3/11/2019	< 0.020	0.012	---	---	< 0.0020	730	< 0.0060	---	0.032	320	0.0085	---	---	16	0.013	2,000	0.013
MW-4	10/29/2019	< 0.020	0.013	---	---	< 0.0020	800	< 0.0060	---	< 0.020	340	0.026	---	---	16	0.02	2,000	0.013
MW-4	9/18/2020	< 0.10	0.017	< 0.010	0.24	< 0.010	790	< 0.030	< 0.030	< 0.10	320	0.029	< 0.040	< 0.050	16	< 0.025	2,100	< 0.050
MW-4	8/23/2021	< 0.10	< 0.010	< 0.010	0.21	< 0.010	770	< 0.030	< 0.030	< 0.020	330	0.015	< 0.040	< 0.050	17	< 0.025	1,600	< 0.050
MW-4	3/22/2022	< 0.020	0.014	< 0.0020	0.25	< 0.0020	790	< 0.0060	0.0062	< 0.020	340	0.039	< 0.0080	< 0.010	20	< 0.0050	2,000	< 0.010
MW-4	8/3/2022	< 0.020	0.013	< 0.0020	0.25	< 0.0020	790	< 0.0060	< 0.0060	0.037	340	0.2	< 0.0080	< 0.010	18	0.014	2,100	< 0.010
MW-4	11/28/2023	0.031	0.0098	< 0.0020	0.16	< 0.0020	810	< 0.0060	< 0.0060	0.037	340	0.11	< 0.0080	< 0.010	17	0.019	1,700	< 0.010
MW-4	4/30/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	0.050	---	---	---	0.0075	---	---
MW-4	9/24/2024	---	---	---	---	---	---	<0.0060	---	<0.020	---	0.12	---	---	---	0.023	---	---
MW-4	12/10/2024	---	---	---	---	---	---	<0.0030	---	<0.50	---	0.080	---	---	---	<0.050	---	---
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)							**---**				**---**				**---**		**---**	
A. Human Health Standards			**2**	**0.004**		**0.005**		**0.05**								**0.05**		
B. Other Standards for Domestic Water Supply										**1.0**		**0.2**						**10**
C. Standards for Irrigation Use		**5.0**			**0.75**				**0.05**				**1.0**	**0.2**				

Notes:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

GROUNDWATER DISSOLVED METALS (TABLE 2 OF 2)
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Antimony	Arsenic	Copper	Lead	Mercury	Selenium	Thallium	Uranium
MW-1	3/17/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.024	---	0.0062
MW-1	6/18/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.025	---	0.0067
MW-1	9/12/2012	---	0.0022	< 0.0060	< 0.0010	< 0.00020	0.024	---	0.007
MW-1	12/7/2012	---	0.0027	< 0.0060	0.0011	< 0.00020	0.023	---	0.007
MW-1	3/12/2013	---	0.0017	< 0.0060	< 0.0050	< 0.00020	0.022	---	0.007
MW-1	6/27/2013	---	< 0.010	< 0.0060	< 0.0050	< 0.00020	0.032	---	< 0.010
MW-1	3/28/2018	---	< 0.0050	< 0.0050	< 0.0025	< 0.00020	0.02	---	0.0056
MW-1	3/11/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	< 0.00020	0.02	< 0.0025	0.0056
MW-1	10/29/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	---	0.02	< 0.0025	0.0064
MW-1	9/18/2020	< 0.020	< 0.020	< 0.030	< 0.010	---	< 0.020	< 0.010	< 0.010
MW-1	8/23/2021	< 0.010	< 0.010	< 0.0060	< 0.0050	---	0.017	< 0.0025	0.0056
MW-1	3/22/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	< 0.020	< 0.0050	< 0.010
MW-1	8/3/2022	< 0.010	< 0.010	< 0.0060	< 0.0050	---	0.022	< 0.0025	0.0055
MW-1	11/28/2023	< 0.0010	**0.022**	< 0.0060	< 0.00050	---	0.019	<0.00025	0.0050
MW-1	04/30/2024	---	0.0015	---	---	---	0.018	---	---
MW-1	9/25/2024	---	0.0036	---	---	---	0.020	---	---
MW-1	12/10/2024	---	<0.0050	---	---	---	0.022	---	---
MW-2	3/17/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.029	---	0.0089
MW-2	6/18/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.028	---	0.01
MW-2	9/12/2012	---	0.0051	< 0.0060	0.0054	< 0.00020	0.025	---	0.0086
MW-2	12/7/2012	---	0.003	< 0.0060	< 0.0050	< 0.00020	0.026	---	0.0099
MW-2	3/12/2013	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.019	---	0.0084
MW-2	6/27/2013	---	0.0056	< 0.0060	< 0.0050	< 0.00020	**0.054**	---	< 0.010
MW-2	3/28/2018	---	0.0069	< 0.0050	< 0.0025	< 0.00020	0.029	---	0.0081
MW-2	3/11/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	< 0.00020	0.024	< 0.0025	0.0079
MW-2	10/29/2019	< 0.010	< 0.010	< 0.0060	< 0.0050	---	0.027	< 0.0050	0.0072
MW-2	9/18/2020	< 0.020	< 0.020	< 0.030	< 0.010	---	0.022	< 0.010	< 0.010
MW-2	8/23/2021	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.019	< 0.0025	0.007
MW-2	3/22/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	< 0.020	< 0.0050	< 0.010
MW-2	8/3/2022	< 0.010	< 0.010	< 0.0060	< 0.0050	---	0.021	< 0.0025	0.0077
MW-2	11/28/2023	< 0.010	**0.015**	< 0.0060	< 0.00050	---	0.017	0.00032	0.0066
MW-2	04/30/2024	---	**0.011**	---	---	---	0.017	---	---
MW-2	9/25/2024	---	0.0030	---	---	---	0.018	---	---
MW-2	12/10/2024	---	<0.0050	---	---	---	0.020	---	---
MW-3	3/17/2012	---	**0.013**	< 0.030	< 0.025	< 0.00020	0.04	---	0.01
MW-3	6/18/2012	---	< 0.020	< 0.030	< 0.025	< 0.00020	0.036	---	< 0.020
MW-3	9/12/2012	---	0.0081	< 0.0060	< 0.010	< 0.00020	0.037	---	0.011
MW-3	12/7/2012	---	0.0056	< 0.0060	< 0.020	< 0.00020	0.033	---	< 0.020
MW-3	3/12/2013	---	< 0.010	< 0.0060	< 0.0050	< 0.00020	0.018	---	< 0.010
MW-3	6/27/2013	---	**0.019**	< 0.0060	< 0.0050	< 0.00020	**0.088**	---	0.011
MW-3	3/28/2018	---	**0.012**	< 0.010	< 0.0050	< 0.00020	0.018	---	0.007
MW-3	3/11/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	< 0.00020	0.019	< 0.0025	0.0072
MW-3	10/29/2019	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.014	< 0.0050	0.0065
MW-3	9/18/2020	< 0.020	< 0.020	< 0.030	< 0.010	---	< 0.020	< 0.010	< 0.010
MW-3	8/23/2021	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.019	< 0.0025	0.0073
MW-3	3/22/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	< 0.020	< 0.0050	< 0.010
MW-3	8/3/2022	< 0.010	< 0.010	< 0.0060	< 0.0050	---	0.016	< 0.0025	0.0063
MW-3	11/28/2023	< 0.010	**0.019**	< 0.0060	< 0.00050	---	0.017	< 0.00025	0.0062
MW-3	04/30/2024	---	0.0016	---	---	---	0.016	---	---
MW-3	9/25/2024	---	0.0029	---	---	---	0.018	---	---
MW-3	12/10/2024	---	0.0050	---	---	---	0.023	---	---

GROUNDWATER DISSOLVED METALS (TABLE 2 OF 2)
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Antimony	Arsenic	Copper	Lead	Mercury	Selenium	Thallium	Uranium
MW-4	3/17/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.026	---	0.009
MW-4	6/18/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.028	---	0.01
MW-4	9/12/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.026	---	0.0092
MW-4	12/7/2012	---	0.0035	< 0.0060	< 0.0050	< 0.00020	0.028	---	0.0089
MW-4	3/12/2013	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.022	---	0.0081
MW-4	6/27/2013	---	< 0.010	< 0.0060	< 0.050	< 0.00020	0.046	---	< 0.010
MW-4	3/28/2018	---	0.0061	< 0.0050	< 0.0025	< 0.00020	0.034	---	0.0083
MW-4	3/11/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	< 0.00020	0.026	< 0.0025	0.0073
MW-4	10/29/2019	< 0.010	< 0.010	< 0.0060	< 0.0050	---	0.022	< 0.0050	0.007
MW-4	9/18/2020	< 0.020	< 0.020	< 0.030	< 0.010	---	< 0.020	< 0.010	< 0.010
MW-4	8/23/2021	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.021	< 0.0025	0.0071
MW-4	3/22/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	0.025	< 0.0050	< 0.010
MW-4	8/3/2022	< 0.0050	< 0.0050	< 0.0060	< 0.0025	---	0.022	< 0.0012	0.0068
MW-4	11/28/2023	< 0.0050	0.0087	< 0.0060	<0.0025	---	0.028	< 0.0012	0.0067
MW-4	04/30/2024	---	<0.0025	---	---	---	0.017	---	---
MW-4	9/25/2024	---	0.0011	---	---	---	0.022	---	---
MW-4	12/10/2024	---	<0.0050	---	---	---	0.022	---	---
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)									
A. Human Health Standards		**0.006**	**0.01**		**0.015**	**0.002**	**0.05**	**0.002**	**0.03**
B. Other Standards for Domestic Water Supply				**1.0**					
C. Standards for Irrigation Use									

Notes:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

GROUNDWATER TPH & VOC DATA SUMMARY
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	TPH TOTAL	TPH GRO	TPH DRO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene
SB-5	10/21/2000	<1.00	<0.5	<0.5	---	**0.535**	0.012	0.02	0.034	---	---	---	---	---
MW-1	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.001	---	---	---	---	---
MW-1	11/8/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-1	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-1	6/18/2012	---	---	---	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-1	9/12/2012	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-1	12/7/2012	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.004	---	---	< 0.004	---	---
MW-1	3/12/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-1	6/27/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-1	3/28/2018	---	---	---	---	< 0.001	< 0.001	< 0.001	<0.0015	---	---	< 0.002	---	---
MW-1	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	10/29/2019	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	---	---
MW-1	9/18/2020	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	< 0.004	< 0.004
MW-1	8/23/2021	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-1	3/22/2022	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-1	8/3/2022	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-1	11/28/2023	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-1	4/30/2024	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	---	---	---
MW-1	9/24/2024	---	---	---	---	< 0.001	---	---	---	---	---	---	---	---
MW-1	12/10/2024	---	---	---	---	<0.001	---	---	---	---	---	---	---	---
MW-2	9/19/2002	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.001	---	---	---	---	---
MW-2	11/8/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-2	3/17/2012	---	---	---	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.004	<0.008	<0.008
MW-2	6/18/2012	---	---	---	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-2	9/12/2012	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-2	12/7/2012	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-2	3/12/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-2	6/27/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-2	3/28/2018	---	---	---	---	< 0.001	< 0.001	< 0.001	<0.0015	---	---	< 0.002	---	---
MW-2	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	10/29/2019	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	---	---
MW-2	9/18/2020	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	< 0.004	< 0.004
MW-2	8/23/2021	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-2	3/22/2022	---	---	---	---	**0.0058**	<0.001	< 0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	8/3/2022	---	---	---	---	**0.047**	< 0.001	< 0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	11/28/2023	---	---	---	---	**0.026**	< 0.001	< 0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	4/30/2024	---	---	---	---	0.0012	< 0.001	< 0.001	<0.0015	---	---	---	---	---
MW-2	9/24/2024	---	---	---	---	0.0012	---	---	---	---	---	---	---	---
MW-2	12/10/2024	---	---	---	---	<0.001	---	---	---	---	---	---	---	---

GROUNDWATER TPH & VOC DATA SUMMARY
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	TPH TOTAL	TPH GRO	TPH DRO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene
MW-3	9/19/2002	---	---	---	---	0.002	<0.001	<0.001	<0.001	---	---	---	---	---
MW-3	11/8/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-3	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-3	6/18/2012	---	---	---	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-3	9/12/2012	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-3	12/7/2012	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-3	3/12/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-3	6/27/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-3	3/28/2018	---	---	---	---	< 0.001	< 0.001	< 0.001	<0.0015	---	---	< 0.002	---	---
MW-3	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	10/29/2019	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	---	---
MW-3	9/18/2020	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	< 0.004	< 0.004
MW-3	8/23/2021	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-3	3/22/2022	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-3	8/3/2022	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-3	11/28/2023	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-3	4/30/2024	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	---	---	---
MW-3	9/24/2024	---	---	---	---	< 0.001	---	---	---	---	---	---	---	---
MW-3	12/10/2024	---	---	---	---	<0.001	---	---	---	---	---	---	---	---

GROUNDWATER TPH & VOC DATA SUMMARY
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	TPH TOTAL	TPH GRO	TPH DRO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene
MW-4	9/19/2002	---	---	---	---	**0.142**	<0.001	<0.001	0.006	---	---	---	---	---
MW-4	11/8/2004	---	---	---	---	0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-4	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-4	6/18/2012	---	---	---	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-4	9/12/2012	---	---	---	---	0.0014	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-4	12/7/2012	---	---	---	---	0.0022	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-4	3/12/2013	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.002	---	---	< 0.002	---	---
MW-4	6/27/2013	---	---	---	---	0.0014	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	3/28/2018	---	---	---	---	< 0.001	< 0.001	< 0.001	<0.0015	---	---	< 0.002	---	---
MW-4	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	10/29/2019	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	---	---
MW-4	9/18/2020	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	< 0.002	< 0.004	< 0.004
MW-4	8/23/2021	---	---	---	---	<0.001	<0.001	<0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-4	3/22/2022	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-4	8/3/2022	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-4	11/28/2023	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	<0.002	<0.004	<0.004
MW-4	4/30/2024	---	---	---	---	< 0.001	< 0.001	< 0.001	< 0.0015	---	---	---	---	---
MW-4	9/24/2024	---	---	---	---	< 0.001	---	---	---	---	---	---	---	---
MW-4	12/10/2024	---	---	---	---	<0.001	---	---	---	---	---	---	---	---
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)		**---**	**---**	**---**						**---**	**---**			
A. Human Health Standards						**0.005**	**1**	**0.7**	**0.62**			**0.03 [1]**	**0.03 [1]**	**0.03 [1]**
B. Other Standards for Domestic Water Supply					**0.1**									
C. Standards for Irrigation Use														

Notes:

1. The 0.03 mg/L standard is for total naphthalene plus monomethylnaphthalenes
2. Exceedances of the listed closure criteria are highlighted in bold, red type.

GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO3)	Carbonate (As CaCO3)	Total Alkalinity (as CaCO3)	
MW-1	9/19/2002	---	---	---	---	---	36,800
MW-1	11/8/2004	---	---	---	---	---	33,500
MW-1	3/17/2012	5,700	7.28	200	< 2.0	200	4,820
MW-1	6/18/2012	5,800	7.09	200	< 2.0	200	5,400
MW-1	9/12/2012	8,400	6.98	220	< 2.0	220	6,300
MW-1	12/7/2012	8,600	6.99	200	< 2.0	200	7,260
MW-1	3/12/2013	6,400	7.34	210	< 2.0	210	5,730
MW-1	6/27/2013	6,900	7.18	210	< 2.0	210	5,270
MW-1	3/28/2018	5,700	---	208	< 2.000	208	5,060
MW-1	3/11/2019	5,900	7.14	202	< 2.000	202	4,620
MW-1	10/29/2019	6,100	---	204.5	< 2.000	204.5	4,880
MW-1	9/18/2020	6,100	7.23	202.4	< 2.000	202.4	5,110
MW-1	8/23/2021	6,100	---	200.2	< 2.000	200.2	4,970
MW-1	3/22/2022	18,000	7.52	188	< 2.000	188	10,500
MW-1	8/3/2022	25,000	7.24	184.8	< 2.000	184.8	14,600
MW-1	11/28/2023	33,000	7.01	181.0	<2.000	181.0	19,700
MW-1	4/30/2024	---	---	---	---	---	24,000
MW-1	9/24/2024	---	---	---	---	---	23,000
MW-1	12/10/2024	---	---	---	---	---	18,000
MW-2	9/19/2002	---	---	---	---	---	22,500
MW-2	11/8/2004	---	---	---	---	---	25,000
MW-2	3/17/2012	13,000	7.23	230	< 2.0	230	8,800
MW-2	6/18/2012	14,000	7.01	220	< 2.0	220	9,880
MW-2	9/12/2012	16,000	6.92	280	< 2.0	280	9,640
MW-2	12/7/2012	14,000	6.94	220	< 2.0	220	8,980
MW-2	3/12/2013	14,000	7.28	230	< 2.0	230	9,630
MW-2	6/27/2013	15,000	7.12	230	< 2.0	230	8,960
MW-2	3/28/2018	18,000	---	227.8	< 2.000	227.8	11,500
MW-2	3/11/2019	20,000	7.09	224.7	< 2.000	224.7	11,200
MW-2	10/29/2019	18,000	---	224.9	< 2.000	224.9	10,500
MW-2	9/18/2020	18,000	7.13	224.1	< 2.000	224.1	10,400
MW-2	8/23/2021	21,000	---	214.7	< 2.000	214.7	10,500
MW-2	3/22/2022	21,000	7.61	207.4	< 2.000	207.4	11,900
MW-2	8/3/2022	38,000	7.00	208.9	< 2.000	208.9	20,700
MW-2	11/28/2023	32,000	7.04	207.4	<2.000	207.4	18,500
MW-2	4/30/2024	---	---	---	---	---	13,000
MW-2	9/24/2024	---	---	---	---	---	19,000
MW-2	12/10/2024	---	---	---	---	---	10,000
MW-3	9/19/2002	---	---	---	---	---	50,100
MW-3	11/8/2004	---	---	---	---	---	54,500
MW-3	3/17/2012	69,000	7.05	210	< 2.0	210	39,000
MW-3	6/18/2012	70,000	6.87	210	< 2.0	210	35,800
MW-3	9/12/2012	67,000	6.78	210	< 2.0	210	38,700
MW-3	12/7/2012	68,000	6.7	200	< 2.0	200	35,300
MW-3	3/12/2013	64,000	7.15	210	< 2.0	210	35,400
MW-3	6/27/2013	65,000	6.96	210	< 2.0	210	34,200
MW-3	3/28/2018	41,000	---	231.7	< 2.000	231.7	24,300
MW-3	3/11/2019	40,000	7.01	222.4	< 2.000	222.4	23,600
MW-3	10/29/2019	38,000	---	223.9	< 2.000	223.9	25,200
MW-3	9/18/2020	42,000	7.12	218.2	< 2.000	218.2	25,000
MW-3	8/23/2021	45,000	---	215.9	< 2.000	215.9	24,300
MW-3	3/22/2022	38,000	7.52	223.4	< 2.000	223.4	22,300

GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS
WILLIAMS PIT
EDDY COUNTY, NEW MEXICO
AP-22

All Values Presented in Parts Per Million (mg/L)

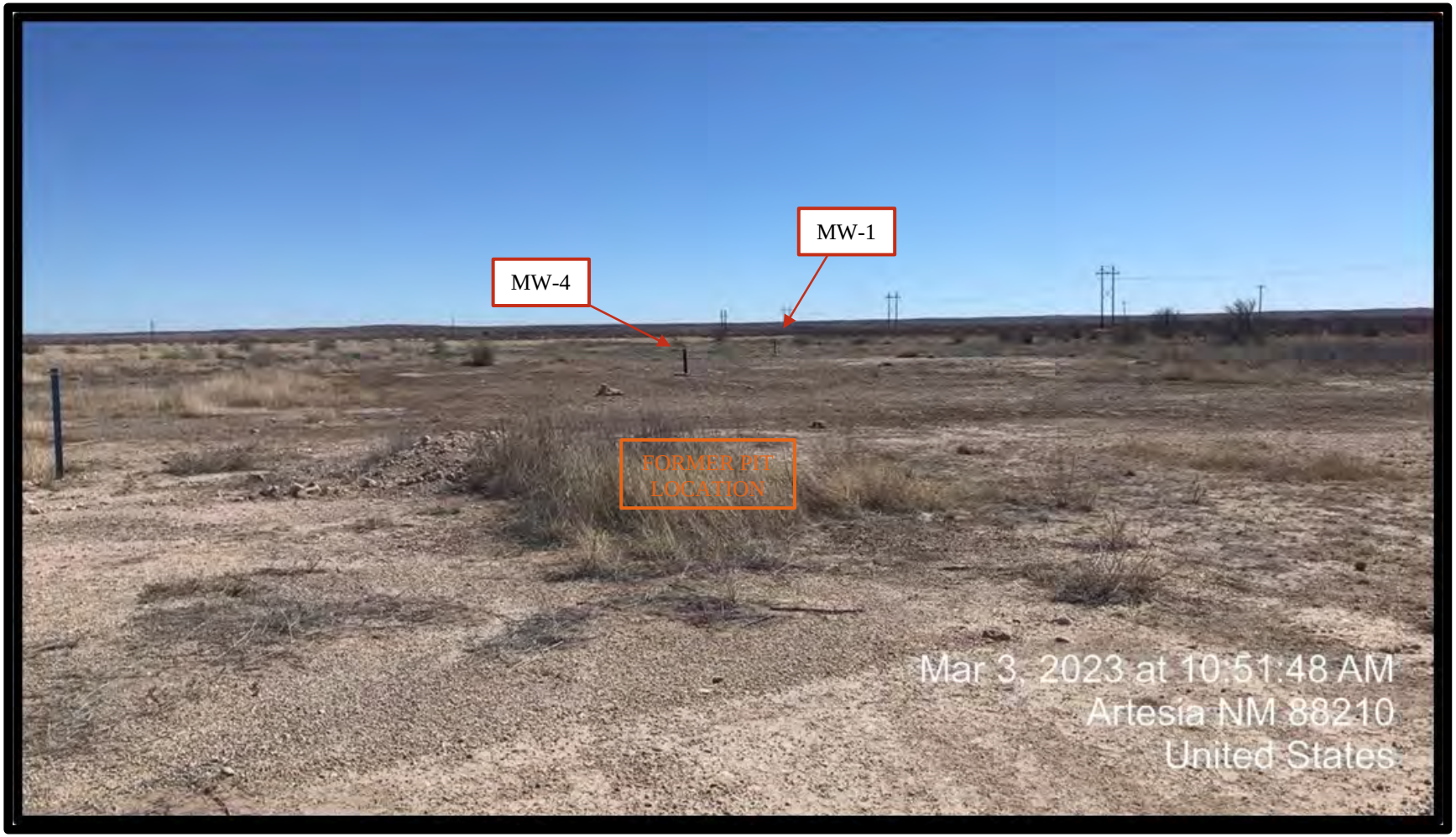
SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO3)	Carbonate (As CaCO3)	Total Alkalinity (as CaCO3)	
MW-3	8/3/2022	41,000	7.17	224.2	< 2.000	224.2	**22,100**
MW-3	11/28/2023	36,000	7.05	215.5	< 2.000	215.5	**21,300**
MW-3	4/30/2024	---	---	---	---	---	**22,000**
MW-3	9/24/2024	---	---	---	---	---	**20,000**
MW-3	12/10/2024	---	---	---	---	---	**17,000**
MW-4	9/19/2002	---	---	---	---	---	**14,700**
MW-4	11/8/2004	---	---	---	---	---	**10,800**
MW-4	3/17/2012	15,000	7.27	260	< 2.0	260	**8,870**
MW-4	6/18/2012	14,000	7.14	260	< 2.0	260	**9,310**
MW-4	9/12/2012	16,000	7.07	270	< 2.0	270	**9,430**
MW-4	12/7/2012	13,000	6.94	250	< 2.0	250	**8,410**
MW-4	3/12/2013	12,000	7.34	250	< 2.0	250	**8,300**
MW-4	6/27/2013	12,000	7.11	250	< 2.0	250	**8,200**
MW-4	3/28/2018	18,000	---	243.8	< 2.000	243.8	**10,600**
MW-4	3/11/2019	16,000	7.12	231.9	< 2.000	231.9	**9,620**
MW-4	10/29/2019	16,000	---	230.6	< 2.000	230.6	**9,340**
MW-4	9/18/2020	15,000	7.20	225	< 2.000	225	**9,000**
MW-4	8/23/2021	17,000	---	217.9	< 2.000	217.9	**9,290**
MW-4	3/22/2022	16,000	7.58	216.8	< 2.000	216.8	**9,230**
MW-4	8/3/2022	17,000	7.28	219.8	< 2.000	219.8	**9,460**
MW-4	11/28/2023	15,000	7.16	232.2	< 2.000	232.2	**8,560**
MW-4	4/30/2024	---	---	---	---	---	**8,800**
MW-4	9/24/2024	---	---	---	---	---	**8,000**
MW-4	12/10/2024	---	---	---	---	---	**7,400**
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)		**---**		**---**	**---**	**---**	
A. Human Health Standards							
B. Other Standards for Domestic Water Supply			**6 to 9**				**1,000**
C. Standards for Irrigation Use							

Notes:

1. Exceedances of the listed closure criteria are highlighted in bold, red type.

ATTACHMENT 1 – SITE PHOTOGRAPHS

PHOTOGRAPH NO. 1 – Former pit location with monitor well "MW-4" visible. The view is towards the northwest.
(Approximate GPS: 32.720493, -104.335875)



PHOTOGRAPH NO. 2 – An additional view of the approximate former pit area and monitor wells "MW-1" and "MW-4". The view is towards the southeast.

(Approximate GPS: 32.720615, -104.336589)

ATTACHMENT 2 – LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 5/29/2024 4:58:35 PM

JOB DESCRIPTION

WilliamsPit

JOB NUMBER

885-3810-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
5/29/2024 4:58:35 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Laboratory Job ID: 885-3810-1

Table of Contents

Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-3810-1
Project/Site: WilliamsPit

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.

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: Ranger Environmental Services, Inc Job ID: 885-3810-1
Project: WilliamsPit

Job ID: 885-3810-1 Eurofins Albuquerque

Job Narrative
885-3810-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/2/2024 7:55 AM. 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 -3.7°C.

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

HPLC/IC
Method 300_OF_28D_PREC: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 885-4390 recovered outside control limits for the following analytes: Cl. Sample requiring Chloride analysis will be re-analyzed on a later run.

Method 300_OF_28D_PREC: SO4 failure on bracketing CCB. Analytes requiring sulfate analysis will be re-run on a future batch.

MW-1 (885-3810-1), MW-2 (885-3810-2), MW-3 (885-3810-3), MW-4 (885-3810-4) and (CCB 885-4390/50)

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

Metals
Method 200.7 - Dissolved: The highlighted CCV failed low for Cr on the instrument at 89.62%. However, it passed in TALS due to the rounding system. Moreover, the analyst turned the Cr off (not reporting) as the analyst is going with the actual instrument value which indicates a failure on the CCV. System will be re-calibrated for Cr.
(CCV 885-4447/42)

Method 200.7 - Total Recoverable: The following samples were diluted due to the nature of the sample matrix: MW-1 (885-3810-1), MW-2 (885-3810-2) and MW-4 (885-3810-4). Elevated reporting limits (RLs) are provided.

Method 200.7 - Total Recoverable: The following sample was diluted due to the nature of the sample matrix: MW-3 (885-3810-3). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 2540C_SingleDry: The analysis volume selected for the following sample produced a base result greater than 200mg before calculation of the final result: MW-3 (885-3810-3). Visual inspection by the analyst identified no signs of trapped moisture in the beaker at its completed state. Based on this inspection, reanalysis was not performed. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: MW-1

Date Collected: 04/30/24 13:39
Date Received: 05/02/24 07:55

Lab Sample ID: 885-3810-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/07/24 10:26	1
Ethylbenzene	ND		1.0		ug/L			05/07/24 10:26	1
Toluene	ND		1.0		ug/L			05/07/24 10:26	1
Xylenes, Total	ND		1.5		ug/L			05/07/24 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*05/07/24 10:26*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/07/24 10:26*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*05/07/24 10:26*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*05/07/24 10:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9500**		500		mg/L			05/07/24 21:36	1000
Sulfate	**2000**		500		mg/L			05/07/24 21:36	1000

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.9**		0.25		mg/L		05/08/24 08:44	05/09/24 10:10	5
Manganese	**0.040**		0.010		mg/L		05/08/24 08:44	05/09/24 10:10	5
Chromium	ND		0.030		mg/L		05/08/24 08:44	05/09/24 10:10	5
Silver	ND		0.025		mg/L		05/08/24 08:44	05/09/24 10:10	5

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			05/06/24 08:56	1
Manganese	ND		0.0020		mg/L			05/06/24 08:56	1
Chromium	ND		0.0060		mg/L			05/06/24 16:25	1
Silver	**0.015**		0.0050		mg/L			05/06/24 08:56	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0047**		0.00050		mg/L		05/08/24 08:44	05/12/24 10:50	1
Selenium	**0.022**		0.0050		mg/L		05/08/24 08:44	05/15/24 14:40	5

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.018**		0.0010		mg/L			05/21/24 11:59	1
Arsenic	**0.0015**		0.00050		mg/L			05/28/24 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**24000**		2500		mg/L			05/06/24 10:19	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: MW-2

Date Collected: 04/30/24 14:18
Date Received: 05/02/24 07:55

Lab Sample ID: 885-3810-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0		ug/L			05/07/24 11:52	1
Ethylbenzene	ND		1.0		ug/L			05/07/24 11:52	1
Toluene	ND		1.0		ug/L			05/07/24 11:52	1
Xylenes, Total	ND		1.5		ug/L			05/07/24 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*05/07/24 11:52*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/07/24 11:52*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*05/07/24 11:52*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/07/24 11:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4800**		250		mg/L			05/07/24 21:49	500
Sulfate	**1900**		250		mg/L			05/07/24 21:49	500

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.3**		0.50		mg/L		05/08/24 08:44	05/09/24 11:03	10
Manganese	**0.76**		0.020		mg/L		05/08/24 08:44	05/09/24 11:03	10
Chromium	ND		0.060		mg/L		05/08/24 08:44	05/09/24 11:03	10
Silver	ND		0.050		mg/L		05/08/24 08:44	05/09/24 11:03	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.023**		0.020		mg/L			05/06/24 08:59	1
Manganese	**0.27**		0.0020		mg/L			05/06/24 08:59	1
Chromium	ND		0.0060		mg/L			05/06/24 16:27	1
Silver	**0.0085**		0.0050		mg/L			05/06/24 08:59	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0033**		0.0025		mg/L		05/08/24 08:44	05/15/24 15:33	5
Selenium	**0.019**		0.0050		mg/L		05/08/24 08:44	05/15/24 15:33	5

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.017**		0.0010		mg/L			05/21/24 12:06	1
Arsenic	**0.011**		0.00050		mg/L			05/21/24 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**13000**		1000		mg/L			05/06/24 10:19	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: MW-3

Date Collected: 04/30/24 14:55
Date Received: 05/02/24 07:55

Lab Sample ID: 885-3810-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/07/24 12:21	1
Ethylbenzene	ND		1.0		ug/L			05/07/24 12:21	1
Toluene	ND		1.0		ug/L			05/07/24 12:21	1
Xylenes, Total	ND		1.5		ug/L			05/07/24 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*05/07/24 12:21*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/07/24 12:21*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*05/07/24 12:21*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*05/07/24 12:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9500**		500		mg/L			05/07/24 22:02	1000
Sulfate	**1900**		500		mg/L			05/07/24 22:02	1000

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		05/08/24 08:44	05/09/24 11:10	10
Manganese	ND		0.020		mg/L		05/08/24 08:44	05/09/24 11:10	10
Chromium	ND		0.060		mg/L		05/08/24 08:44	05/09/24 11:10	10
Silver	ND		0.050		mg/L		05/08/24 08:44	05/09/24 11:10	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			05/06/24 09:02	1
Manganese	ND		0.0020		mg/L			05/06/24 09:02	1
Chromium	ND		0.0060		mg/L			05/06/24 16:29	1
Silver	**0.014**		0.0050		mg/L			05/06/24 09:02	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0039**		0.0025		mg/L		05/08/24 08:44	05/15/24 17:08	5
Selenium	**0.023**		0.0050		mg/L		05/08/24 08:44	05/15/24 17:08	5

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.016**		0.0010		mg/L			05/28/24 13:51	1
Arsenic	**0.0016**		0.00050		mg/L			05/28/24 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**22000**	**E**	500		mg/L			05/06/24 10:19	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: MW-4

Date Collected: 04/30/24 15:42
Date Received: 05/02/24 07:55

Lab Sample ID: 885-3810-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/07/24 12:49	1
Ethylbenzene	ND		1.0		ug/L			05/07/24 12:49	1
Toluene	ND		1.0		ug/L			05/07/24 12:49	1
Xylenes, Total	ND		1.5		ug/L			05/07/24 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*05/07/24 12:49*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/07/24 12:49*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*05/07/24 12:49*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/07/24 12:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2800**		100		mg/L			05/07/24 22:14	200
Sulfate	**2000**		100		mg/L			05/07/24 22:14	200

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.55**		0.25		mg/L		05/08/24 08:44	05/09/24 11:08	5
Manganese	**0.27**		0.010		mg/L		05/08/24 08:44	05/09/24 11:08	5
Chromium	ND		0.030		mg/L		05/08/24 08:44	05/09/24 11:08	5
Silver	ND		0.025		mg/L		05/08/24 08:44	05/09/24 11:08	5

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			05/06/24 09:05	1
Manganese	**0.050**		0.0020		mg/L			05/06/24 09:05	1
Chromium	ND	F1	0.0060		mg/L			05/06/24 16:31	1
Silver	**0.0075**		0.0050		mg/L			05/06/24 09:05	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0030**		0.0025		mg/L		05/08/24 08:44	05/15/24 17:15	5
Selenium	**0.025**		0.0050		mg/L		05/08/24 08:44	05/15/24 17:15	5

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.017**		0.0050		mg/L			05/26/24 10:28	5
Arsenic	ND		0.0025		mg/L			05/26/24 10:28	5

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**8800**		500		mg/L			05/06/24 10:19	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-3810-5
Matrix: Water
Date Collected: 04/30/24 00:00
Date Received: 05/02/24 07:55

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/07/24 13:18	1
Ethylbenzene	ND		1.0		ug/L			05/07/24 13:18	1
Toluene	ND		1.0		ug/L			05/07/24 13:18	1
Xylenes, Total	ND		1.5		ug/L			05/07/24 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*05/07/24 13:18*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/07/24 13:18*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*05/07/24 13:18*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/07/24 13:18*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-4552/3
Matrix: Water
Analysis Batch: 4552

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/07/24 09:29	1
Ethylbenzene	ND		1.0		ug/L			05/07/24 09:29	1
Toluene	ND		1.0		ug/L			05/07/24 09:29	1
Xylenes, Total	ND		1.5		ug/L			05/07/24 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*05/07/24 09:29*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/07/24 09:29*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*05/07/24 09:29*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*05/07/24 09:29*	*1*

Lab Sample ID: LCS 885-4552/2
Matrix: Water
Analysis Batch: 4552

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	22.0		ug/L		110	70 - 130		
Toluene			20.2	17.9		ug/L		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*86*		*70 - 130*

Lab Sample ID: 885-3810-1 MS
Matrix: Water
Analysis Batch: 4552

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		20.1	21.9		ug/L		109	70 - 130		
Toluene	ND		20.2	17.2		ug/L		85	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*85*		*70 - 130*

Lab Sample ID: 885-3810-1 MSD
Matrix: Water
Analysis Batch: 4552

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		20.1	21.9		ug/L		109	70 - 130	0	20
Toluene	ND		20.2	17.6		ug/L		87	70 - 130	2	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-3810-1 MSD
Matrix: Water
Analysis Batch: 4552

Client Sample ID: MW-1
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4390/4
Matrix: Water
Analysis Batch: 4390

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/03/24 10:39	1
Sulfate	ND		0.50		mg/L			05/03/24 10:39	1

Lab Sample ID: LCS 885-4390/5
Matrix: Water
Analysis Batch: 4390

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.55		mg/L		91	90 - 110		
Sulfate			10.0	9.35		mg/L		93	90 - 110		

Lab Sample ID: MRL 885-4390/3
Matrix: Water
Analysis Batch: 4390

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.521		mg/L		104	50 - 150		
Sulfate			0.500	0.534		mg/L		107	50 - 150		

Lab Sample ID: MB 885-4496/1-A
Matrix: Water
Analysis Batch: 4540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4496

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/L		05/07/24 12:04	05/07/24 12:53	1
Sulfate	ND		1.5		mg/L		05/07/24 12:04	05/07/24 12:53	1

Lab Sample ID: LCS 885-4496/2-A
Matrix: Water
Analysis Batch: 4540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4496

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.0		mg/L		93	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-4540/18
Matrix: Water
Analysis Batch: 4540

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			05/07/24 09:41	1
Sulfate	ND		0.50		mg/L			05/07/24 09:41	1

Lab Sample ID: LCS 885-4540/19
Matrix: Water
Analysis Batch: 4540

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.71		mg/L		94	90 - 110		
Sulfate			10.0	9.55		mg/L		95	90 - 110		

Lab Sample ID: MRL 885-4540/17
Matrix: Water
Analysis Batch: 4540

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.520		mg/L		104	50 - 150		
Sulfate			0.500	0.491	J	mg/L		98	50 - 150		

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-4392/17
Matrix: Water
Analysis Batch: 4392

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			05/06/24 08:22	1
Manganese	ND		0.0020		mg/L			05/06/24 08:22	1
Chromium	ND		0.0060		mg/L			05/06/24 08:22	1
Silver	ND		0.0050		mg/L			05/06/24 08:22	1

Lab Sample ID: LCS 885-4392/19
Matrix: Water
Analysis Batch: 4392

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.500	0.518		mg/L		104	85 - 115		
Manganese			0.500	0.470		mg/L		94	85 - 115		
Chromium			0.500	0.439		mg/L		88	85 - 115		
Silver			0.500	0.503		mg/L		101	85 - 115		

Lab Sample ID: LLCS 885-4392/18
Matrix: Water
Analysis Batch: 4392

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.0200	0.0230		mg/L		115	50 - 150		
Manganese			0.00200	0.00184	J	mg/L		92	50 - 150		
Chromium			0.00600	0.00666		mg/L		111	50 - 150		
Silver			0.00500	0.00452	J	mg/L		90	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-4392/14
Matrix: Water
Analysis Batch: 4392

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0207	J	mg/L		103	50 - 150
Manganese	0.00200	0.00192	J	mg/L		96	50 - 150
Chromium	0.00600	0.00641		mg/L		107	50 - 150
Silver	0.00500	0.00514		mg/L		103	50 - 150

Lab Sample ID: MB 885-4447/17
Matrix: Water
Analysis Batch: 4447

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020	mg/L			05/06/24 14:21	1
Manganese	ND		0.0020	mg/L			05/06/24 14:21	1
Chromium	ND		0.0060	mg/L			05/06/24 14:21	1
Silver	ND		0.0050	mg/L			05/06/24 14:21	1

Lab Sample ID: LCS 885-4447/19
Matrix: Water
Analysis Batch: 4447

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.500	0.505		mg/L		101	85 - 115
Manganese	0.500	0.501		mg/L		100	85 - 115
Chromium	0.500	0.499		mg/L		100	85 - 115
Silver	0.500	0.494		mg/L		99	85 - 115

Lab Sample ID: LLCS 885-4447/18
Matrix: Water
Analysis Batch: 4447

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0223		mg/L		111	50 - 150
Manganese	0.00200	0.00196	J	mg/L		98	50 - 150
Chromium	0.00600	0.00634		mg/L		106	50 - 150
Silver	0.00500	0.00499	J	mg/L		100	50 - 150

Lab Sample ID: MRL 885-4447/14
Matrix: Water
Analysis Batch: 4447

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0212	J	mg/L		106	50 - 150
Manganese	0.00200	0.00211		mg/L		106	50 - 150
Chromium	0.00600	0.00636		mg/L		106	50 - 150
Silver	0.00500	0.00488	J	mg/L		98	50 - 150

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 885-4454/20
Matrix: Water
Analysis Batch: 4454

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0060		mg/L			05/06/24 16:20	1

Lab Sample ID: LCS 885-4454/22
Matrix: Water
Analysis Batch: 4454

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.500	0.492		mg/L		98	85 - 115		

Lab Sample ID: LLCS 885-4454/21
Matrix: Water
Analysis Batch: 4454

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.00600	0.00638		mg/L		106	50 - 150		

Lab Sample ID: MRL 885-4454/17
Matrix: Water
Analysis Batch: 4454

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.00600	0.00710		mg/L		118	50 - 150		

Lab Sample ID: MRL 885-4684/14
Matrix: Water
Analysis Batch: 4684

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.0200	0.0185	J	mg/L		93	50 - 150		
Manganese			0.00200	0.00190	J	mg/L		95	50 - 150		
Chromium			0.00600	0.00545	J	mg/L		91	50 - 150		
Silver			0.00500	0.00464	J	mg/L		93	50 - 150		

Lab Sample ID: MB 885-4537/1-A
Matrix: Water
Analysis Batch: 4684

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		05/08/24 08:44	05/09/24 08:50	1
Manganese	ND		0.0020		mg/L		05/08/24 08:44	05/09/24 08:50	1
Chromium	ND		0.0060		mg/L		05/08/24 08:44	05/09/24 08:50	1
Silver	ND		0.0050		mg/L		05/08/24 08:44	05/09/24 08:50	1

Lab Sample ID: LCS 885-4537/3-A
Matrix: Water
Analysis Batch: 4684

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.500	0.467		mg/L		93	85 - 115		
Manganese			0.500	0.463		mg/L		93	85 - 115		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 885-4537/3-A
Matrix: Water
Analysis Batch: 4684

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.500	0.461		mg/L		92	85 - 115
Silver	0.100	0.0927		mg/L		93	85 - 115

Lab Sample ID: LLCS 885-4537/2-A
Matrix: Water
Analysis Batch: 4684

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0193	J	mg/L		96	50 - 150
Manganese	0.00200	0.00192	J	mg/L		96	50 - 150
Chromium	0.00600	0.00448	J	mg/L		75	50 - 150
Silver	0.00500	0.00457	J	mg/L		91	50 - 150

Lab Sample ID: 885-3810-4 MS
Matrix: Water
Analysis Batch: 4454

Client Sample ID: MW-4
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	ND	F1	0.500	0.433		mg/L		87	70 - 130

Lab Sample ID: 885-3810-4 MSD
Matrix: Water
Analysis Batch: 4454

Client Sample ID: MW-4
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	ND	F1	0.500	0.409		mg/L		82	70 - 130	6	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MRL 885-4817/10
Matrix: Water
Analysis Batch: 4817

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.00100	0.000908	J	mg/L		91	50 - 150

Lab Sample ID: MRL 885-4817/11
Matrix: Water
Analysis Batch: 4817

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000500	0.000529		mg/L		106	50 - 150

Lab Sample ID: MRL 885-5081/10
Matrix: Water
Analysis Batch: 5081

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.00100	0.000940	J	mg/L		94	50 - 150

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MRL 885-5081/11
Matrix: Water
Analysis Batch: 5081

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000500	0.000568		mg/L		114	50 - 150

Lab Sample ID: MB 885-5373/12
Matrix: Water
Analysis Batch: 5373

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010	mg/L			05/21/24 11:45	1

Lab Sample ID: LCS 885-5373/13
Matrix: Water
Analysis Batch: 5373

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.0250	0.0261		mg/L		104	85 - 115
Arsenic	0.0250	0.0254		mg/L		102	85 - 115

Lab Sample ID: MRL 885-5373/10
Matrix: Water
Analysis Batch: 5373

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.00100	0.000894	J	mg/L		89	50 - 150

Lab Sample ID: MRL 885-5373/11
Matrix: Water
Analysis Batch: 5373

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.000500	0.000631	J	mg/L		126	50 - 150
Arsenic	0.000500	0.000447	J	mg/L		89	50 - 150

Lab Sample ID: MB 885-5671/75
Matrix: Water
Analysis Batch: 5671

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010	mg/L			05/26/24 10:06	1
Arsenic	ND		0.00050	mg/L			05/26/24 10:06	1

Lab Sample ID: LCS 885-5671/76
Matrix: Water
Analysis Batch: 5671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.0250	0.0246		mg/L		98	85 - 115
Arsenic	0.0250	0.0245		mg/L		98	85 - 115

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 885-5671/77
Matrix: Water
Analysis Batch: 5671

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
Selenium			0.0250	0.0260		mg/L		104	85 - 115	5	20
Arsenic			0.0250	0.0246		mg/L		98	85 - 115	0	20

Lab Sample ID: MRL 885-5671/73
Matrix: Water
Analysis Batch: 5671

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.00100	0.00130		mg/L		130	50 - 150		

Lab Sample ID: MRL 885-5671/74
Matrix: Water
Analysis Batch: 5671

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.000500	0.000470	J	mg/L		94	50 - 150		

Lab Sample ID: MB 885-5764/43
Matrix: Water
Analysis Batch: 5764

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010		mg/L			05/28/24 13:37	1
Arsenic	ND		0.00050		mg/L			05/28/24 13:37	1

Lab Sample ID: LCS 885-5764/44
Matrix: Water
Analysis Batch: 5764

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.0250	0.0228		mg/L		91	85 - 115		
Arsenic			0.0250	0.0242		mg/L		97	85 - 115		

Lab Sample ID: MRL 885-5764/40
Matrix: Water
Analysis Batch: 5764

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.00100	0.000967	J	mg/L		97	50 - 150		

Lab Sample ID: MRL 885-5764/41
Matrix: Water
Analysis Batch: 5764

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.000500	0.000425	J	mg/L		85	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 885-4537/1-A
Matrix: Water
Analysis Batch: 4660

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010		mg/L		05/08/24 08:44	05/08/24 13:58	1
Arsenic	ND		0.00050		mg/L		05/08/24 08:44	05/08/24 13:58	1

Lab Sample ID: LCS 885-4537/6-A
Matrix: Water
Analysis Batch: 4660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.0250	0.0259		mg/L		103	85 - 115		
Arsenic			0.0250	0.0244		mg/L		98	85 - 115		

Lab Sample ID: LLCS 885-4537/4-A
Matrix: Water
Analysis Batch: 4660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.00100	0.00113		mg/L		113	50 - 150		

Lab Sample ID: LLCS 885-4537/5-A
Matrix: Water
Analysis Batch: 4660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.000500	0.000411	J	mg/L		82	50 - 150		

Lab Sample ID: 885-3810-1 MS
Matrix: Water
Analysis Batch: 5081

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium	0.022		0.0250	0.0454		mg/L		94	70 - 130		

Lab Sample ID: 885-3810-1 MSD
Matrix: Water
Analysis Batch: 5081

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 4537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	0.022		0.0250	0.0465		mg/L		98	70 - 130	2	20

Lab Sample ID: 885-3810-1 MS
Matrix: Water
Analysis Batch: 5373

Client Sample ID: MW-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium	0.018		0.0250	0.0389		mg/L		83	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 885-3810-1 MSD
Matrix: Water
Analysis Batch: 5373

Client Sample ID: MW-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	0.018		0.0250	0.0384		mg/L		81	70 - 130	1	20

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

Lab Sample ID: MB 885-4400/1
Matrix: Water
Analysis Batch: 4400

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50		mg/L			05/06/24 10:19	1

Lab Sample ID: LCS 885-4400/2
Matrix: Water
Analysis Batch: 4400

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	1010		mg/L		101	80 - 120		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

GC/MS VOA

Analysis Batch: 4552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total/NA	Water	8260B	
885-3810-2	MW-2	Total/NA	Water	8260B	
885-3810-3	MW-3	Total/NA	Water	8260B	
885-3810-4	MW-4	Total/NA	Water	8260B	
885-3810-5	Trip Blank	Total/NA	Water	8260B	
MB 885-4552/3	Method Blank	Total/NA	Water	8260B	
LCS 885-4552/2	Lab Control Sample	Total/NA	Water	8260B	
885-3810-1 MS	MW-1	Total/NA	Water	8260B	
885-3810-1 MSD	MW-1	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 4390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4390/4	Method Blank	Total/NA	Water	300.0	
LCS 885-4390/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-4390/3	Lab Control Sample	Total/NA	Water	300.0	

Prep Batch: 4496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4496/1-A	Method Blank	Total/NA	Water	300_Prep	
LCS 885-4496/2-A	Lab Control Sample	Total/NA	Water	300_Prep	

Analysis Batch: 4540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total/NA	Water	300.0	
885-3810-2	MW-2	Total/NA	Water	300.0	
885-3810-3	MW-3	Total/NA	Water	300.0	
885-3810-4	MW-4	Total/NA	Water	300.0	
MB 885-4496/1-A	Method Blank	Total/NA	Water	300.0	4496
MB 885-4540/18	Method Blank	Total/NA	Water	300.0	
LCS 885-4496/2-A	Lab Control Sample	Total/NA	Water	300.0	4496
LCS 885-4540/19	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-4540/17	Lab Control Sample	Total/NA	Water	300.0	

Metals

Analysis Batch: 4392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Dissolved	Water	200.7 Rev 4.4	
885-3810-2	MW-2	Dissolved	Water	200.7 Rev 4.4	
885-3810-3	MW-3	Dissolved	Water	200.7 Rev 4.4	
885-3810-4	MW-4	Dissolved	Water	200.7 Rev 4.4	
MB 885-4392/17	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-4392/19	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-4392/18	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-4392/14	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 4447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4447/17	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-4447/19	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Metals (Continued)

Analysis Batch: 4447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 885-4447/18	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-4447/14	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 4454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Dissolved	Water	200.7 Rev 4.4	
885-3810-2	MW-2	Dissolved	Water	200.7 Rev 4.4	
885-3810-3	MW-3	Dissolved	Water	200.7 Rev 4.4	
885-3810-4	MW-4	Dissolved	Water	200.7 Rev 4.4	
MB 885-4454/20	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-4454/22	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-4454/21	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-4454/17	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
885-3810-4 MS	MW-4	Dissolved	Water	200.7 Rev 4.4	
885-3810-4 MSD	MW-4	Dissolved	Water	200.7 Rev 4.4	

Prep Batch: 4537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total Recoverable	Water	200.2	
885-3810-2	MW-2	Total Recoverable	Water	200.2	
885-3810-3	MW-3	Total Recoverable	Water	200.2	
885-3810-4	MW-4	Total Recoverable	Water	200.2	
MB 885-4537/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 885-4537/3-A	Lab Control Sample	Total Recoverable	Water	200.2	
LCS 885-4537/6-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-4537/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-4537/4-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-4537/5-A	Lab Control Sample	Total Recoverable	Water	200.2	
885-3810-1 MS	MW-1	Total Recoverable	Water	200.2	
885-3810-1 MSD	MW-1	Total Recoverable	Water	200.2	

Analysis Batch: 4660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4537/1-A	Method Blank	Total Recoverable	Water	200.8	4537
LCS 885-4537/6-A	Lab Control Sample	Total Recoverable	Water	200.8	4537
LLCS 885-4537/4-A	Lab Control Sample	Total Recoverable	Water	200.8	4537
LLCS 885-4537/5-A	Lab Control Sample	Total Recoverable	Water	200.8	4537

Analysis Batch: 4684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total Recoverable	Water	200.7 Rev 4.4	4537
885-3810-2	MW-2	Total Recoverable	Water	200.7 Rev 4.4	4537
885-3810-3	MW-3	Total Recoverable	Water	200.7 Rev 4.4	4537
885-3810-4	MW-4	Total Recoverable	Water	200.7 Rev 4.4	4537
MB 885-4537/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	4537
LCS 885-4537/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	4537
LLCS 885-4537/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	4537
MRL 885-4684/14	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Metals

Analysis Batch: 4817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total Recoverable	Water	200.8	4537
MRL 885-4817/10	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-4817/11	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 5081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total Recoverable	Water	200.8	4537
885-3810-2	MW-2	Total Recoverable	Water	200.8	4537
885-3810-3	MW-3	Total Recoverable	Water	200.8	4537
885-3810-4	MW-4	Total Recoverable	Water	200.8	4537
MRL 885-5081/10	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-5081/11	Lab Control Sample	Total/NA	Water	200.8	
885-3810-1 MS	MW-1	Total Recoverable	Water	200.8	4537
885-3810-1 MSD	MW-1	Total Recoverable	Water	200.8	4537

Analysis Batch: 5373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Dissolved	Water	200.8	
885-3810-2	MW-2	Dissolved	Water	200.8	
MB 885-5373/12	Method Blank	Total/NA	Water	200.8	
LCS 885-5373/13	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-5373/10	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-5373/11	Lab Control Sample	Total/NA	Water	200.8	
885-3810-1 MS	MW-1	Dissolved	Water	200.8	
885-3810-1 MSD	MW-1	Dissolved	Water	200.8	

Analysis Batch: 5671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-4	MW-4	Dissolved	Water	200.8	
MB 885-5671/75	Method Blank	Total/NA	Water	200.8	
LCS 885-5671/76	Lab Control Sample	Total/NA	Water	200.8	
LCSD 885-5671/77	Lab Control Sample Dup	Total/NA	Water	200.8	
MRL 885-5671/73	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-5671/74	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 5764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Dissolved	Water	200.8	
885-3810-3	MW-3	Dissolved	Water	200.8	
MB 885-5764/43	Method Blank	Total/NA	Water	200.8	
LCS 885-5764/44	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-5764/40	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-5764/41	Lab Control Sample	Total/NA	Water	200.8	

General Chemistry

Analysis Batch: 4400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-1	MW-1	Total/NA	Water	2540C	
885-3810-2	MW-2	Total/NA	Water	2540C	
885-3810-3	MW-3	Total/NA	Water	2540C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

General Chemistry (Continued)

Analysis Batch: 4400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3810-4	MW-4	Total/NA	Water	2540C	
MB 885-4400/1	Method Blank	Total/NA	Water	2540C	
LCS 885-4400/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: MW-1

Lab Sample ID: 885-3810-1

Date Collected: 04/30/24 13:39
Matrix: Water
Date Received: 05/02/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4552	JR	EET ALB	05/07/24 10:26
Total/NA	Analysis	300.0		1000	4540	SS	EET ALB	05/07/24 21:36
Dissolved	Analysis	200.7 Rev 4.4		1	4392	VP	EET ALB	05/06/24 08:56
Dissolved	Analysis	200.7 Rev 4.4		1	4454	VP	EET ALB	05/06/24 16:25
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.7 Rev 4.4		5	4684	JR	EET ALB	05/09/24 10:10
Dissolved	Analysis	200.8		1	5373	BV	EET ALB	05/21/24 11:59
Dissolved	Analysis	200.8		1	5764	ES	EET ALB	05/28/24 13:48
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.8		1	4817	BV	EET ALB	05/12/24 10:50
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.8		5	5081	BV	EET ALB	05/15/24 14:40
Total/NA	Analysis	2540C		1	4400	KB	EET ALB	05/06/24 10:19

Client Sample ID: MW-2

Lab Sample ID: 885-3810-2

Date Collected: 04/30/24 14:18
Matrix: Water
Date Received: 05/02/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4552	JR	EET ALB	05/07/24 11:52
Total/NA	Analysis	300.0		500	4540	SS	EET ALB	05/07/24 21:49
Dissolved	Analysis	200.7 Rev 4.4		1	4392	VP	EET ALB	05/06/24 08:59
Dissolved	Analysis	200.7 Rev 4.4		1	4454	VP	EET ALB	05/06/24 16:27
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.7 Rev 4.4		10	4684	JR	EET ALB	05/09/24 11:03
Dissolved	Analysis	200.8		1	5373	BV	EET ALB	05/21/24 12:06
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.8		5	5081	BV	EET ALB	05/15/24 15:33
Total/NA	Analysis	2540C		1	4400	KB	EET ALB	05/06/24 10:19

Client Sample ID: MW-3

Lab Sample ID: 885-3810-3

Date Collected: 04/30/24 14:55
Matrix: Water
Date Received: 05/02/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4552	JR	EET ALB	05/07/24 12:21
Total/NA	Analysis	300.0		1000	4540	SS	EET ALB	05/07/24 22:02
Dissolved	Analysis	200.7 Rev 4.4		1	4392	VP	EET ALB	05/06/24 09:02
Dissolved	Analysis	200.7 Rev 4.4		1	4454	VP	EET ALB	05/06/24 16:29
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.7 Rev 4.4		10	4684	JR	EET ALB	05/09/24 11:10
Dissolved	Analysis	200.8		1	5764	ES	EET ALB	05/28/24 13:51

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Client Sample ID: MW-3

Lab Sample ID: 885-3810-3

Date Collected: 04/30/24 14:55

Matrix: Water

Date Received: 05/02/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.8		5	5081	BV	EET ALB	05/15/24 17:08
Total/NA	Analysis	2540C		1	4400	KB	EET ALB	05/06/24 10:19

Client Sample ID: MW-4

Lab Sample ID: 885-3810-4

Date Collected: 04/30/24 15:42

Matrix: Water

Date Received: 05/02/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4552	JR	EET ALB	05/07/24 12:49
Total/NA	Analysis	300.0		200	4540	SS	EET ALB	05/07/24 22:14
Dissolved	Analysis	200.7 Rev 4.4		1	4392	VP	EET ALB	05/06/24 09:05
Dissolved	Analysis	200.7 Rev 4.4		1	4454	VP	EET ALB	05/06/24 16:31
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.7 Rev 4.4		5	4684	JR	EET ALB	05/09/24 11:08
Dissolved	Analysis	200.8		5	5671	BV	EET ALB	05/26/24 10:28
Total Recoverable	Prep	200.2			4537	TM	EET ALB	05/08/24 08:44
Total Recoverable	Analysis	200.8		5	5081	BV	EET ALB	05/15/24 17:15
Total/NA	Analysis	2540C		1	4400	KB	EET ALB	05/06/24 10:19

Client Sample ID: Trip Blank

Lab Sample ID: 885-3810-5

Date Collected: 04/30/24 00:00

Matrix: Water

Date Received: 05/02/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4552	JR	EET ALB	05/07/24 13:18

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Project/Site: WilliamsPit

Job ID: 885-3810-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client EOG / Ranger Env

Mailing Address EOG - 5509 Champions Drive Midland Tx

Ranger PO Box 201179, Austin TX 78720

Phone # 521-335-1785

email or Fax# Will@RangerEnv com

QA/QC Package
■ Standard ☐ Level 4 (Full Validation)

Accreditation ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time
☐ Standard ■ Rush EOG TAT

Project Name: WILLIAMS PIT

Project # 5375

Project Manager W Kierdorf

Sampler W KIERDORF & J. MARTINEZ

On Ice: ■ Yes ☐ No

# of Coolers: 1 4 095

Cooler Temp(including CF): -3.7-0=-3.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel 505-345-3975 Fax 505-345-4107

885-3810 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	See attached list
4/30/24	1339	AR	MW-1	4'	SEE NOTES ↓	1				X
	1418		MW-2		ICE	2				
	1455		MW-3			3				
	1542		MW-4			4				
↓	—	↓	TRIP BLANK	2 ML VOAS	—	5				X

Analysis Request

Date	Time	Relinquished by	Received by	Via	Date	Time
5/1/24	1222				5/1/24	1227
5/1/24	1900			Courier	5/2/24	7:55

Remarks Bill to EOG Midland attn Chase Settle
4' - 3xMCL VOAS, 1x500 ML PLASTIC, 1x250ML PLASTIC(HNO3) & 1x 125 ML PLASTIC(HNO3)
NOT FROZEN IN 5/2/24

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

2 of 2

Williams Pit Analysis Request

- Arsenic
- Benzene, Toluene, Ethylbenzene & Xylenes
- Chloride
- Chromium
- Iron
- Manganese
- Selenium
- Silver
- Sulfate
- Total Dissolved Solids

☆ PLEASE CALL FOR TRIP BLANK INSTRUCTIONS

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 885-3810-1

Login Number: 3810

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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	Samples not Frozen
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").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 11/19/2024 1:31:27 PM Revision 1

JOB DESCRIPTION

Williams Pit

JOB NUMBER

885-12631-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

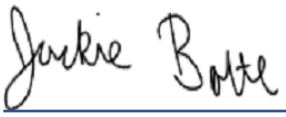
See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
11/19/2024 1:31:27 PM
Revision 1

Authorized for release by
Jackie Bolte, Project Manager
jackie.bolte@et.eurofinsus.com
Designee for
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Laboratory Job ID: 885-12631-1

Table of Contents

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Ranger Environmental Services, Inc
Project: Williams Pit

Job ID: 885-12631-1

Job ID: 885-12631-1 Eurofins Albuquerque

Job Narrative
885-12631-1

REVISION

The report being provided is a revision of the original report sent on 10/14/2024. The report (revision 1) is being revised due to Updated Sample Time.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/26/2024 8:00 AM. 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 2.2°C.

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

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

Metals
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: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: MW-1

Date Collected: 09/24/24 13:35
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/06/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/06/24 17:57*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/06/24 17:57*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/06/24 17:57*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/06/24 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9700**		500		mg/L			10/02/24 09:48	1000
Sulfate	**2200**		50		mg/L			09/29/24 10:24	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			09/27/24 14:18	1
Manganese	ND		0.0020		mg/L			09/27/24 14:18	1
Chromium	ND		0.0060		mg/L			09/27/24 14:18	1
Silver	**0.042**		0.0050		mg/L			09/27/24 14:18	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0036**		0.00050		mg/L			09/28/24 11:30	1
Selenium	**0.020**		0.0010		mg/L			09/28/24 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**23000**		2500		mg/L			10/01/24 14:50	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: MW-2

Date Collected: 09/24/24 15:40
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0		ug/L			10/07/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/07/24 18:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/07/24 18:27*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/07/24 18:27*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/07/24 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7400**		500		mg/L			10/02/24 10:01	1000
Sulfate	**2100**		50		mg/L			09/29/24 10:49	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			09/27/24 14:20	1
Manganese	**0.71**		0.0020		mg/L			09/27/24 14:20	1
Chromium	ND		0.0060		mg/L			09/27/24 14:20	1
Silver	**0.033**		0.0050		mg/L			09/27/24 14:20	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0030**		0.00050		mg/L			09/28/24 11:33	1
Selenium	**0.018**		0.0010		mg/L			09/28/24 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**19000**		2500		mg/L			10/01/24 14:50	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: MW-3

Date Collected: 09/24/24 14:41
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/06/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/06/24 19:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/06/24 19:35*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/06/24 19:35*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/06/24 19:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8200**		500		mg/L			10/02/24 10:14	1000
Sulfate	**2000**		50		mg/L			09/29/24 11:13	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			09/27/24 14:24	1
Manganese	ND		0.0020		mg/L			09/27/24 14:24	1
Chromium	ND		0.0060		mg/L			09/27/24 14:24	1
Silver	**0.038**		0.0050		mg/L			09/27/24 14:24	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0029**		0.00050		mg/L			09/28/24 11:41	1
Selenium	**0.018**		0.0010		mg/L			09/28/24 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**20000**		1000		mg/L			10/01/24 14:50	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: MW-4

Date Collected: 09/24/24 14:04
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/06/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/06/24 19:59*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/06/24 19:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/06/24 19:59*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/06/24 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2800**		100		mg/L			10/02/24 10:27	200
Sulfate	**2000**		50		mg/L			09/29/24 12:03	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020		mg/L			09/27/24 14:28	1
Manganese	**0.12**		0.0020		mg/L			09/27/24 14:28	1
Chromium	ND		0.0060		mg/L			09/27/24 14:28	1
Silver	**0.023**		0.0050		mg/L			09/27/24 14:28	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0011**		0.00050		mg/L			09/28/24 11:43	1
Selenium	**0.022**		0.0010		mg/L			09/28/24 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**8000**		1000		mg/L			10/01/24 14:50	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: Trip Blank

Date Collected: 09/24/24 00:00
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/06/24 20:23	1
Ethylbenzene	ND		1.0		ug/L			10/06/24 20:23	1
Toluene	ND		1.0		ug/L			10/06/24 20:23	1
Xylenes, Total	ND		1.5		ug/L			10/06/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/06/24 20:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/06/24 20:23*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/06/24 20:23*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/06/24 20:23*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-13755/6
Matrix: Water
Analysis Batch: 13755

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/06/24 17:30	1
Ethylbenzene	ND		1.0		ug/L			10/06/24 17:30	1
Toluene	ND		1.0		ug/L			10/06/24 17:30	1
Xylenes, Total	ND		1.5		ug/L			10/06/24 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*10/06/24 17:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/06/24 17:30*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/06/24 17:30*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/06/24 17:30*	*1*

Lab Sample ID: STOBLK 885-13755/19
Matrix: Water
Analysis Batch: 13755

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

Analyte	STOBLK Result	STOBLK Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/06/24 22:49	1
Ethylbenzene	ND		1.0		ug/L			10/06/24 22:49	1
Toluene	ND		1.0		ug/L			10/06/24 22:49	1
Xylenes, Total	ND		1.5		ug/L			10/06/24 22:49	1

Surrogate	*STOBLK %Recovery*	*STOBLK Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/06/24 22:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/06/24 22:49*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/06/24 22:49*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/06/24 22:49*	*1*

Lab Sample ID: LCS 885-13755/5
Matrix: Water
Analysis Batch: 13755

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	22.4		ug/L		111	70 - 130		
Toluene			20.2	20.2		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 885-12631-1 MS
Matrix: Water
Analysis Batch: 13755

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		20.1	24.2		ug/L		120	70 - 130		
Toluene	ND		20.2	21.2		ug/L		105	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 885-12631-1 MSD
Matrix: Water
Analysis Batch: 13755

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		20.1	23.0		ug/L		114	70 - 130	5	20
Toluene	ND		20.2	20.5		ug/L		101	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: MB 885-13800/7
Matrix: Water
Analysis Batch: 13800

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/07/24 13:21	1
Ethylbenzene	ND		1.0		ug/L			10/07/24 13:21	1
Toluene	ND		1.0		ug/L			10/07/24 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		10/07/24 13:21	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/07/24 13:21	1
Dibromofluoromethane (Surr)	103		70 - 130		10/07/24 13:21	1
Toluene-d8 (Surr)	96		70 - 130		10/07/24 13:21	1

Lab Sample ID: LCS 885-13800/5
Matrix: Water
Analysis Batch: 13800

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.0	23.9		ug/L		120	70 - 130		
Ethylbenzene			20.0	20.3		ug/L		102	70 - 130		
m-Xylene & p-Xylene			40.0	41.1		ug/L		103	70 - 130		
o-Xylene			20.0	20.1		ug/L		100	70 - 130		
Toluene			20.0	20.9		ug/L		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 885-13800/6
Matrix: Water
Analysis Batch: 13800

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-13334/4
Matrix: Water
Analysis Batch: 13334

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			09/29/24 09:47	1
Sulfate	ND		0.50		mg/L			09/29/24 09:47	1

Lab Sample ID: LCS 885-13334/5
Matrix: Water
Analysis Batch: 13334

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.86		mg/L		97	90 - 110		
Sulfate			10.0	9.64		mg/L		96	90 - 110		

Lab Sample ID: MRL 885-13334/3
Matrix: Water
Analysis Batch: 13334

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.530		mg/L		106	50 - 150		
Sulfate			0.500	0.513		mg/L		103	50 - 150		

Lab Sample ID: MB 885-13575/4
Matrix: Water
Analysis Batch: 13575

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/02/24 08:30	1
Sulfate	ND		0.50		mg/L			10/02/24 08:30	1

Lab Sample ID: LCS 885-13575/5
Matrix: Water
Analysis Batch: 13575

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.91		mg/L		98	90 - 110		
Sulfate			10.0	9.46		mg/L		95	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-13575/3
Matrix: Water
Analysis Batch: 13575

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.522		mg/L		104	50 - 150
Sulfate	0.500	0.483	J	mg/L		97	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-13232/40
Matrix: Water
Analysis Batch: 13232

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020	mg/L			09/27/24 13:53	1
Manganese	ND		0.0020	mg/L			09/27/24 13:53	1
Chromium	ND		0.0060	mg/L			09/27/24 13:53	1
Silver	ND		0.0050	mg/L			09/27/24 13:53	1

Lab Sample ID: LCS 885-13232/42
Matrix: Water
Analysis Batch: 13232

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.500	0.541		mg/L		108	85 - 115
Manganese	0.500	0.548		mg/L		110	85 - 115
Chromium	0.500	0.539		mg/L		108	85 - 115
Silver	0.500	0.552		mg/L		110	85 - 115

Lab Sample ID: LLCS 885-13232/41
Matrix: Water
Analysis Batch: 13232

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0161	J	mg/L		80	50 - 150
Manganese	0.00200	0.00201		mg/L		101	50 - 150
Chromium	0.00600	0.00770		mg/L		128	50 - 150
Silver	0.00500	0.00625		mg/L		125	50 - 150

Lab Sample ID: MRL 885-13232/37
Matrix: Water
Analysis Batch: 13232

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0210	J	mg/L		105	50 - 150
Manganese	0.00200	0.00185	J	mg/L		93	50 - 150
Chromium	0.00600	0.00683		mg/L		114	50 - 150
Silver	0.00500	0.00520		mg/L		104	50 - 150

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 885-12631-4 MS
Matrix: Water
Analysis Batch: 13232

Client Sample ID: MW-4
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	ND		0.500	0.474		mg/L		95	70 - 130
Manganese	0.12		0.500	0.550		mg/L		86	70 - 130
Chromium	ND		0.500	0.448		mg/L		90	70 - 130
Silver	0.023		0.500	0.484		mg/L		92	70 - 130

Lab Sample ID: 885-12631-4 MSD
Matrix: Water
Analysis Batch: 13232

Client Sample ID: MW-4
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	ND		0.500	0.456		mg/L		91	70 - 130	4	20
Manganese	0.12		0.500	0.537		mg/L		83	70 - 130	2	20
Chromium	ND		0.500	0.415		mg/L		83	70 - 130	8	20
Silver	0.023		0.500	0.461		mg/L		88	70 - 130	5	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MRL 885-13293/10
Matrix: Water
Analysis Batch: 13293

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000500	0.000498	J	mg/L		100	50 - 150
Selenium	0.000500	ND		mg/L		84	50 - 150

Lab Sample ID: MRL 885-13293/9
Matrix: Water
Analysis Batch: 13293

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00100	0.00103		mg/L		103	50 - 150
Selenium	0.00100	0.000886	J	mg/L		89	50 - 150

Lab Sample ID: MB 885-13148/1-A
Matrix: Water
Analysis Batch: 13293

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 13148

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00050	mg/L		09/27/24 08:54	09/28/24 10:37	1
Selenium	ND		0.0010	mg/L		09/27/24 08:54	09/28/24 10:37	1

Lab Sample ID: LCS 885-13148/4-A
Matrix: Water
Analysis Batch: 13293

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 13148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0250	0.0240		mg/L		96	85 - 115
Selenium	0.0250	0.0237		mg/L		95	85 - 115

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 885-13148/2-A
Matrix: Water
Analysis Batch: 13293

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 13148

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00100	0.000980		mg/L		98	50 - 150
Selenium	0.00100	ND		mg/L		92	50 - 150

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

Lab Sample ID: MB 885-13402/1
Matrix: Water
Analysis Batch: 13402

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			10/01/24 14:50	1

Lab Sample ID: LCS 885-13402/2
Matrix: Water
Analysis Batch: 13402

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	1000		mg/L		100	80 - 120

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

GC/MS VOA

Analysis Batch: 13755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Total/NA	Water	8260B	
885-12631-3	MW-3	Total/NA	Water	8260B	
885-12631-4	MW-4	Total/NA	Water	8260B	
885-12631-5	Trip Blank	Total/NA	Water	8260B	
MB 885-13755/6	Method Blank	Total/NA	Water	8260B	
STOBLK 885-13755/19	Method Blank	Total/NA	Water	8260B	
LCS 885-13755/5	Lab Control Sample	Total/NA	Water	8260B	
885-12631-1 MS	MW-1	Total/NA	Water	8260B	
885-12631-1 MSD	MW-1	Total/NA	Water	8260B	

Analysis Batch: 13800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-2	MW-2	Total/NA	Water	8260B	
MB 885-13800/7	Method Blank	Total/NA	Water	8260B	
LCS 885-13800/5	Lab Control Sample	Total/NA	Water	8260B	
LCS 885-13800/6	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 13334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Total/NA	Water	300.0	
885-12631-2	MW-2	Total/NA	Water	300.0	
885-12631-3	MW-3	Total/NA	Water	300.0	
885-12631-4	MW-4	Total/NA	Water	300.0	
MB 885-13334/4	Method Blank	Total/NA	Water	300.0	
LCS 885-13334/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-13334/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 13575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Total/NA	Water	300.0	
885-12631-2	MW-2	Total/NA	Water	300.0	
885-12631-3	MW-3	Total/NA	Water	300.0	
885-12631-4	MW-4	Total/NA	Water	300.0	
MB 885-13575/4	Method Blank	Total/NA	Water	300.0	
LCS 885-13575/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-13575/3	Lab Control Sample	Total/NA	Water	300.0	

Metals

Filtration Batch: 13130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Dissolved	Water	Filtration	
885-12631-2	MW-2	Dissolved	Water	Filtration	
885-12631-3	MW-3	Dissolved	Water	Filtration	
885-12631-4	MW-4	Dissolved	Water	Filtration	
885-12631-4 MS	MW-4	Dissolved	Water	Filtration	
885-12631-4 MSD	MW-4	Dissolved	Water	Filtration	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Metals

Prep Batch: 13148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-13148/1-A	Method Blank	Dissolved	Water	200.2	
LCS 885-13148/4-A	Lab Control Sample	Dissolved	Water	200.2	
LLCS 885-13148/2-A	Lab Control Sample	Dissolved	Water	200.2	

Analysis Batch: 13232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Dissolved	Water	200.7 Rev 4.4	13130
885-12631-2	MW-2	Dissolved	Water	200.7 Rev 4.4	13130
885-12631-3	MW-3	Dissolved	Water	200.7 Rev 4.4	13130
885-12631-4	MW-4	Dissolved	Water	200.7 Rev 4.4	13130
MB 885-13232/40	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-13232/42	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-13232/41	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-13232/37	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
885-12631-4 MS	MW-4	Dissolved	Water	200.7 Rev 4.4	13130
885-12631-4 MSD	MW-4	Dissolved	Water	200.7 Rev 4.4	13130

Analysis Batch: 13293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Dissolved	Water	200.8	13130
885-12631-2	MW-2	Dissolved	Water	200.8	13130
885-12631-3	MW-3	Dissolved	Water	200.8	13130
885-12631-4	MW-4	Dissolved	Water	200.8	13130
MB 885-13148/1-A	Method Blank	Dissolved	Water	200.8	13148
LCS 885-13148/4-A	Lab Control Sample	Dissolved	Water	200.8	13148
LLCS 885-13148/2-A	Lab Control Sample	Dissolved	Water	200.8	13148
MRL 885-13293/10	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-13293/9	Lab Control Sample	Total/NA	Water	200.8	

General Chemistry

Analysis Batch: 13402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12631-1	MW-1	Total/NA	Water	2540C	
885-12631-2	MW-2	Total/NA	Water	2540C	
885-12631-3	MW-3	Total/NA	Water	2540C	
885-12631-4	MW-4	Total/NA	Water	2540C	
MB 885-13402/1	Method Blank	Total/NA	Water	2540C	
LCS 885-13402/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: MW-1
Date Collected: 09/24/24 13:35
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13755	CM	EET ALB	10/06/24 17:57
Total/NA	Analysis	300.0		1000	13575	JT	EET ALB	10/02/24 09:48
Total/NA	Analysis	300.0		100	13334	RC	EET ALB	09/29/24 10:24
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.7 Rev 4.4		1	13232	VP	EET ALB	09/27/24 14:18
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.8		1	13293	ES	EET ALB	09/28/24 11:30
Total/NA	Analysis	2540C		1	13402	KB	EET ALB	10/01/24 14:50

Client Sample ID: MW-2
Date Collected: 09/24/24 15:40
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13800	CM	EET ALB	10/07/24 18:27
Total/NA	Analysis	300.0		1000	13575	JT	EET ALB	10/02/24 10:01
Total/NA	Analysis	300.0		100	13334	RC	EET ALB	09/29/24 10:49
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.7 Rev 4.4		1	13232	VP	EET ALB	09/27/24 14:20
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.8		1	13293	ES	EET ALB	09/28/24 11:33
Total/NA	Analysis	2540C		1	13402	KB	EET ALB	10/01/24 14:50

Client Sample ID: MW-3
Date Collected: 09/24/24 14:41
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13755	CM	EET ALB	10/06/24 19:35
Total/NA	Analysis	300.0		1000	13575	JT	EET ALB	10/02/24 10:14
Total/NA	Analysis	300.0		100	13334	RC	EET ALB	09/29/24 11:13
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.7 Rev 4.4		1	13232	VP	EET ALB	09/27/24 14:24
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.8		1	13293	ES	EET ALB	09/28/24 11:41
Total/NA	Analysis	2540C		1	13402	KB	EET ALB	10/01/24 14:50

Client Sample ID: MW-4
Date Collected: 09/24/24 14:04
Date Received: 09/26/24 08:00

Lab Sample ID: 885-12631-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13755	CM	EET ALB	10/06/24 19:59
Total/NA	Analysis	300.0		200	13575	JT	EET ALB	10/02/24 10:27

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-12631-1

Client Sample ID: MW-4

Lab Sample ID: 885-12631-4
Matrix: Water
Date Collected: 09/24/24 14:04
Date Received: 09/26/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		100	13334	RC	EET ALB	09/29/24 12:03
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.7 Rev 4.4		1	13232	VP	EET ALB	09/27/24 14:28
Dissolved	Filtration	Filtration			13130	TC	EET ALB	09/26/24 17:15
Dissolved	Analysis	200.8		1	13293	ES	EET ALB	09/28/24 11:43
Total/NA	Analysis	2540C		1	13402	KB	EET ALB	10/01/24 14:50

Client Sample ID: Trip Blank

Lab Sample ID: 885-12631-5
Matrix: Water
Date Collected: 09/24/24 00:00
Date Received: 09/26/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	13755	CM	EET ALB	10/06/24 20:23

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-12631-1
Project/Site: Williams Pit

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: EOG / Ranger Env.

Mailing Address: EOG - 5509 Champions Drive, Midland Tx

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ■ Rush EOG TAT

Project Name: WILLIAMS PIT

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF/J. MARTINEZ

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (YOG)

Cooler Temp(including CF): .9+0.3=2.2°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-12631 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	See attached list
9/24/24	1335	AQ	MW-2	*SEE NOTES	*SEE NOTES	1				X
9/24/24	1540	AQ	MW-2			2				
9/24/24	1441	AQ	MW-3			3				
9/24/24	1404	AQ	MW-4			4				
9/24/24	—	AQ	TRIP BLANK	2x VOAs	HCL/ICE	5				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/25/24	1153				9/25/24	1153
9/25/24	1900		SCM	COURIER	9/26/24	0810

Remarks: Bill to EOG Midland attn: Chase Settle
* 3 HCL VOAs, 1 x 500 mL PLASTIC (UNPRESERVED) & 1 x 250 PLASTIC (HNO3)

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

Williams Pit Analysis Request

- Arsenic
- Benzene
- Chloride
- Chromium
- Iron
- Manganese
- Selenium
- Silver
- Sulfate
- Total Dissolved Solids

* PER DISCUSSION WITH A. FREEMAN ON 9/24 - FILTER FOR DISSOLVED METALS IN LAB.

Chain-of-Custody Record

Client: EOG / Ranger Env.

Mailing Address: EOG - 5509 Champions Drive, Midland Tx

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ■ Rush EOG TAT

Project Name: WILLIAMS PIT

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF/J. MARTINEZ

On Ice: ☒ Yes ☐ No

# of Coolers: YOG

Cooler Temp(including CF): .9+0.3=2.2°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-12631 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	See attached list
9/24/24	1335	AQ	MW-1	#SEE NOTES	#SEE NOTES	1				X
9/24/24	1540	AQ	MW-2			2				
9/24/24	1441	AQ	MW-3			3				
9/24/24	1404	AQ	MW-4			4				
9/24/24	—	AQ	TRIP BLANK	2x VOAs	HCL/ICE	5				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/25/24	1153				9/25/24	1153
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/25/24	1900		SCH	COURIER	9/26/24	0820

Remarks: Bill to EOG Midland attn: Chase Settle
3 HCL VOAs, 1x500 mL PLASTIC(UNPRESERVED), & 1x250 PLASTIC (NM03)

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

Williams Pit Analysis Request

- Arsenic
- Benzene
- Chloride
- Chromium
- Iron
- Manganese
- Selenium
- Silver
- Sulfate
- Total Dissolved Solids

* PER DISCUSSION WITH A. FREEMAN ON 9/24 - FILTER FOR DISSOLVED METALS IN LAB.

Chain-of-Custody Record

Client: EOG / Ranger Env.

Mailing Address: EOG - 5509 Champions Drive, Midland Tx

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ■ Rush EOG TAT

Project Name: WILLIAMS PIT

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF/J. MARTINEZ

On Ice: ☒ Yes ☐ No

# of Coolers: 1 (VOC)

Cooler Temp(including CF): .9+0.3=2.2°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Loc: 885 12631 #1 A V-M-Sam

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	See attached list
9/24/24	1335	AQ	MW-1	*SEE NOTES	*SEE NOTES	1				X
9/24/24	1540	AQ	MW-2			2				
9/24/24	1441	AQ	MW-3			3				
9/24/24	1404	AQ	MW-4			4				
9/24/24	—	AQ	TRIP BLANK	2x VOAs	HCL/ICE	5				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/25/24	1153				9/25/24	1153
9/25/24	1900		SCM	COURIER	9/26/24	0830

Remarks: Bill to EOG Midland attn: Chase Settle
* 3 HCL VOAs, 1x500 mL PLASTIC(UNPRESERVED) & 1x250 PLASTIC (NH4)3

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

Williams Pit Analysis Request

- Arsenic
- Benzene
- Chloride
- Chromium
- Iron
- Manganese
- Selenium
- Silver
- Sulfate
- Total Dissolved Solids

* PER DISCUSSION WITH A. FREEMAN ON 9/24 - FILTER FOR DISSOLVED METALS IN LAB.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-12631-1

Login Number: 12631 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 12/30/2024 10:13:29 AM

JOB DESCRIPTION

Williams Pit

JOB NUMBER

885-16875-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
12/30/2024 10:13:29 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Laboratory Job ID: 885-16875-1

Table of Contents

Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-16875-1
Project/Site: Williams Pit

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.

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: Ranger Environmental Services, Inc Job ID: 885-16875-1
Project: Williams Pit

Job ID: 885-16875-1 Eurofins Albuquerque

Job Narrative
885-16875-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/12/2024 7:45 AM. 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 0.4°C.

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

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

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

General Chemistry
Method 2540C_SingleDry: The analysis volume selected for the following samples produced a base result greater than 200mg before calculation of the final result: MW-1 (885-16875-1), MW-2 (885-16875-2), MW-3 (885-16875-3) and MW-4 (885-16875-4). Reanalysis was not be performed due to no trapped moisture observed. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, since no moisture was observed, these data have been qualified.

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

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-16875-1
Project/Site: Williams Pit

Client Sample ID: MW-1
Lab Sample ID: 885-16875-1
Date Collected: 12/10/24 14:48
Matrix: Water
Date Received: 12/12/24 07:45

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/17/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*12/17/24 21:30*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*12/17/24 21:30*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*12/17/24 21:30*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/17/24 21:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8500**		500		mg/L			12/13/24 18:06	1000
Sulfate	**2300**		50		mg/L			12/12/24 15:11	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		12/16/24 09:00	12/19/24 14:13	10
Manganese	ND		0.020		mg/L		12/16/24 09:00	12/19/24 14:13	10
Chromium	ND		0.060		mg/L		12/16/24 09:00	12/19/24 14:13	10
Silver	ND		0.050		mg/L		12/16/24 09:00	12/26/24 06:03	10

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050		mg/L		12/16/24 09:00	12/17/24 13:52	10
Selenium	**0.022**		0.010		mg/L		12/16/24 09:00	12/17/24 13:52	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**18000**	**E**	100		mg/L			12/17/24 10:06	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Client Sample ID: MW-2

Date Collected: 12/10/24 15:27
Date Received: 12/12/24 07:45

Lab Sample ID: 885-16875-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/17/24 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*12/17/24 21:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*12/17/24 21:54*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*12/17/24 21:54*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/17/24 21:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4200**		250		mg/L			12/13/24 18:58	500
Sulfate	**2100**		50		mg/L			12/12/24 15:33	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		12/16/24 09:00	12/19/24 14:14	10
Manganese	**0.56**		0.020		mg/L		12/16/24 09:00	12/19/24 14:14	10
Chromium	ND		0.060		mg/L		12/16/24 09:00	12/19/24 14:14	10
Silver	ND		0.050		mg/L		12/16/24 09:00	12/26/24 06:05	10

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050		mg/L		12/16/24 09:00	12/17/24 13:55	10
Selenium	**0.020**		0.010		mg/L		12/16/24 09:00	12/17/24 13:55	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10000**	**E**	100		mg/L			12/17/24 10:06	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Client Sample ID: MW-3

Date Collected: 12/10/24 13:34
Date Received: 12/12/24 07:45

Lab Sample ID: 885-16875-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/20/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*12/20/24 18:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/20/24 18:44*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*12/20/24 18:44*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/20/24 18:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8000**		500		mg/L			12/13/24 19:08	1000
Sulfate	**2000**		50		mg/L			12/12/24 16:18	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		12/16/24 09:00	12/19/24 14:16	10
Manganese	ND		0.010		mg/L		12/16/24 09:00	12/17/24 16:52	5
Chromium	ND		0.030		mg/L		12/16/24 09:00	12/17/24 16:52	5
Silver	ND		0.050		mg/L		12/16/24 09:00	12/26/24 06:07	10

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0050**		0.0050		mg/L		12/16/24 09:00	12/17/24 14:07	10
Selenium	**0.023**		0.010		mg/L		12/16/24 09:00	12/17/24 14:07	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**17000**	**E**	50		mg/L			12/17/24 10:06	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Client Sample ID: MW-4

Date Collected: 12/10/24 14:11
Date Received: 12/12/24 07:45

Lab Sample ID: 885-16875-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/20/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*12/20/24 19:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*12/20/24 19:57*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*12/20/24 19:57*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/20/24 19:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2600**		100		mg/L			12/13/24 19:18	200
Sulfate	**2200**		50		mg/L			12/12/24 17:02	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		12/16/24 09:00	12/19/24 14:18	10
Manganese	**0.080**		0.010		mg/L		12/16/24 09:00	12/17/24 16:56	5
Chromium	ND		0.030		mg/L		12/16/24 09:00	12/17/24 16:56	5
Silver	ND		0.050		mg/L		12/16/24 09:00	12/26/24 06:09	10

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050		mg/L		12/16/24 09:00	12/17/24 14:09	10
Selenium	**0.022**		0.010		mg/L		12/16/24 09:00	12/17/24 14:09	10

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**7400**	**E**	100		mg/L			12/17/24 10:06	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Client Sample ID: TRIP BLANK

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 07:45

Lab Sample ID: 885-16875-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/20/24 20:22	1
Ethylbenzene	ND		1.0		ug/L			12/20/24 20:22	1
Toluene	ND		1.0		ug/L			12/20/24 20:22	1
Xylenes, Total	ND		1.5		ug/L			12/20/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*12/20/24 20:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*12/20/24 20:22*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*12/20/24 20:22*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/20/24 20:22*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-17902/6
Matrix: Water
Analysis Batch: 17902

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/17/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*12/17/24 11:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*12/17/24 11:42*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*12/17/24 11:42*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/17/24 11:42*	*1*

Lab Sample ID: LCS 885-17902/5
Matrix: Water
Analysis Batch: 17902

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	21.2		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 885-18251/6
Matrix: Water
Analysis Batch: 18251

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/20/24 15:48	1
Ethylbenzene	ND		1.0		ug/L			12/20/24 15:48	1
Toluene	ND		1.0		ug/L			12/20/24 15:48	1
Xylenes, Total	ND		1.5		ug/L			12/20/24 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*12/20/24 15:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/20/24 15:48*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*12/20/24 15:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/20/24 15:48*	*1*

Lab Sample ID: LCS 885-18251/5
Matrix: Water
Analysis Batch: 18251

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	19.5		ug/L		97	70 - 130		
Toluene			20.2	19.9		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 885-18251/5
Matrix: Water
Analysis Batch: 18251

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 885-16875-3 MS
Matrix: Water
Analysis Batch: 18251

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		20.1	20.3		ug/L		101	70 - 130
Toluene	ND		20.2	20.2		ug/L		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 885-16875-3 MSD
Matrix: Water
Analysis Batch: 18251

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		20.1	20.0		ug/L		99	70 - 130	2	20
Toluene	ND		20.2	19.9		ug/L		99	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17579/4
Matrix: Water
Analysis Batch: 17579

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/12/24 07:46	1
Sulfate	ND		0.50		mg/L			12/12/24 07:46	1

Lab Sample ID: MB 885-17579/51
Matrix: Water
Analysis Batch: 17579

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/12/24 16:29	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-17579/51
Matrix: Water
Analysis Batch: 17579

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50		mg/L			12/12/24 16:29	1

Lab Sample ID: LCS 885-17579/5
Matrix: Water
Analysis Batch: 17579

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.95		mg/L		99	90 - 110		
Sulfate			10.0	9.86		mg/L		99	90 - 110		

Lab Sample ID: LCS 885-17579/52
Matrix: Water
Analysis Batch: 17579

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.84		mg/L		97	90 - 110		
Sulfate			10.0	9.60		mg/L		96	90 - 110		

Lab Sample ID: MRL 885-17579/3
Matrix: Water
Analysis Batch: 17579

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.518		mg/L		104	50 - 150		
Sulfate			0.500	0.524		mg/L		105	50 - 150		

Lab Sample ID: MB 885-17697/32
Matrix: Water
Analysis Batch: 17697

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/13/24 13:37	1
Sulfate	ND		0.50		mg/L			12/13/24 13:37	1

Lab Sample ID: MB 885-17697/61
Matrix: Water
Analysis Batch: 17697

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/13/24 18:37	1
Sulfate	ND		0.50		mg/L			12/13/24 18:37	1

Lab Sample ID: LCS 885-17697/33
Matrix: Water
Analysis Batch: 17697

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.87		mg/L		97	90 - 110		
Sulfate			10.0	9.74		mg/L		97	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-17697/62
Matrix: Water
Analysis Batch: 17697

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.94		mg/L		99	90 - 110
Sulfate	10.0	9.86		mg/L		99	90 - 110

Lab Sample ID: MRL 885-17697/3
Matrix: Water
Analysis Batch: 17697

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.528		mg/L		106	50 - 150
Sulfate	0.500	0.518		mg/L		104	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-18001/14
Matrix: Water
Analysis Batch: 18001

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0215	J	mg/L		108	50 - 150
Manganese	0.00200	0.00237		mg/L		118	50 - 150
Chromium	0.00600	0.00692		mg/L		115	50 - 150
Silver	0.00500	0.00549		mg/L		110	50 - 150

Lab Sample ID: MRL 885-18187/42
Matrix: Water
Analysis Batch: 18187

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0192	J	mg/L		96	50 - 150
Manganese	0.00200	0.00198	J	mg/L		99	50 - 150
Chromium	0.00600	0.00606		mg/L		101	50 - 150

Lab Sample ID: MRL 885-18454/26
Matrix: Water
Analysis Batch: 18454

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0205	J	mg/L		102	50 - 150
Manganese	0.00200	0.00208		mg/L		104	50 - 150
Chromium	0.00600	0.00609		mg/L		101	50 - 150
Silver	0.00500	0.00332	J	mg/L		66	50 - 150

Lab Sample ID: MB 885-17808/1-A
Matrix: Water
Analysis Batch: 18001

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	mg/L		12/16/24 09:00	12/17/24 12:48	1
Manganese	ND		0.0020	mg/L		12/16/24 09:00	12/17/24 12:48	1
Chromium	ND		0.0060	mg/L		12/16/24 09:00	12/17/24 12:48	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 885-17808/1-A
Matrix: Water
Analysis Batch: 18001

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050		mg/L		12/16/24 09:00	12/17/24 12:48	1

Lab Sample ID: LCS 885-17808/6-A
Matrix: Water
Analysis Batch: 18001

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.500	0.523		mg/L		105	85 - 115		
Manganese			0.500	0.506		mg/L		101	85 - 115		
Chromium			0.500	0.507		mg/L		101	85 - 115		
Silver			0.100	0.0877		mg/L		88	85 - 115		

Lab Sample ID: LLCS 885-17808/5-A
Matrix: Water
Analysis Batch: 18001

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.0200	0.0218	J	mg/L		109	50 - 150		
Manganese			0.00200	0.00202		mg/L		101	50 - 150		
Chromium			0.00600	0.00634		mg/L		106	50 - 150		
Silver			0.00500	0.00513		mg/L		103	50 - 150		

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MRL 885-17999/37
Matrix: Water
Analysis Batch: 17999

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			0.00100	0.000929	J	mg/L		93	50 - 150		

Lab Sample ID: MRL 885-17999/38
Matrix: Water
Analysis Batch: 17999

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.000500	0.000491	J	mg/L		98	50 - 150		

Lab Sample ID: MRL 885-18000/10
Matrix: Water
Analysis Batch: 18000

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.000500	0.000512		mg/L		102	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MRL 885-18000/9
Matrix: Water
Analysis Batch: 18000

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.00100	0.00117		mg/L		117	50 - 150

Lab Sample ID: MB 885-17808/1-A
Matrix: Water
Analysis Batch: 17999

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00050	mg/L		12/16/24 09:00	12/17/24 12:16	1
Selenium	ND		0.0010	mg/L		12/16/24 09:00	12/17/24 12:16	1

Lab Sample ID: LCS 885-17808/4-A
Matrix: Water
Analysis Batch: 17999

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0250	0.0240		mg/L		96	85 - 115
Selenium	0.0250	0.0220		mg/L		88	85 - 115

Lab Sample ID: LLCS 885-17808/2-A
Matrix: Water
Analysis Batch: 18000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 17808

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00100	0.00114		mg/L		114	50 - 150
Selenium	0.00100	0.00112		mg/L		112	50 - 150

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

Lab Sample ID: MB 885-17913/1
Matrix: Water
Analysis Batch: 17913

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			12/17/24 10:06	1

Lab Sample ID: LCS 885-17913/2
Matrix: Water
Analysis Batch: 17913

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	1010		mg/L		101	80 - 120

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

GC/MS VOA

Analysis Batch: 17902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total/NA	Water	8260B	
885-16875-2	MW-2	Total/NA	Water	8260B	
MB 885-17902/6	Method Blank	Total/NA	Water	8260B	
LCS 885-17902/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 18251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-3	MW-3	Total/NA	Water	8260B	
885-16875-4	MW-4	Total/NA	Water	8260B	
885-16875-5	TRIP BLANK	Total/NA	Water	8260B	
MB 885-18251/6	Method Blank	Total/NA	Water	8260B	
LCS 885-18251/5	Lab Control Sample	Total/NA	Water	8260B	
885-16875-3 MS	MW-3	Total/NA	Water	8260B	
885-16875-3 MSD	MW-3	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 17579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total/NA	Water	300.0	
885-16875-2	MW-2	Total/NA	Water	300.0	
885-16875-3	MW-3	Total/NA	Water	300.0	
885-16875-4	MW-4	Total/NA	Water	300.0	
MB 885-17579/4	Method Blank	Total/NA	Water	300.0	
MB 885-17579/51	Method Blank	Total/NA	Water	300.0	
LCS 885-17579/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-17579/52	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17579/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 17697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total/NA	Water	300.0	
885-16875-2	MW-2	Total/NA	Water	300.0	
885-16875-3	MW-3	Total/NA	Water	300.0	
885-16875-4	MW-4	Total/NA	Water	300.0	
MB 885-17697/32	Method Blank	Total/NA	Water	300.0	
MB 885-17697/61	Method Blank	Total/NA	Water	300.0	
LCS 885-17697/33	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-17697/62	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17697/3	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 17808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total Recoverable	Water	200.2	
885-16875-2	MW-2	Total Recoverable	Water	200.2	
885-16875-3	MW-3	Total Recoverable	Water	200.2	
885-16875-4	MW-4	Total Recoverable	Water	200.2	
MB 885-17808/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 885-17808/4-A	Lab Control Sample	Total Recoverable	Water	200.2	
LCS 885-17808/6-A	Lab Control Sample	Total Recoverable	Water	200.2	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Metals (Continued)

Prep Batch: 17808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 885-17808/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-17808/5-A	Lab Control Sample	Total Recoverable	Water	200.2	

Analysis Batch: 17999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total Recoverable	Water	200.8	17808
885-16875-2	MW-2	Total Recoverable	Water	200.8	17808
885-16875-3	MW-3	Total Recoverable	Water	200.8	17808
885-16875-4	MW-4	Total Recoverable	Water	200.8	17808
MB 885-17808/1-A	Method Blank	Total Recoverable	Water	200.8	17808
LCS 885-17808/4-A	Lab Control Sample	Total Recoverable	Water	200.8	17808
MRL 885-17999/37	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-17999/38	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 18000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 885-17808/2-A	Lab Control Sample	Total Recoverable	Water	200.8	17808
MRL 885-18000/10	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-18000/9	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 18001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-3	MW-3	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-4	MW-4	Total Recoverable	Water	200.7 Rev 4.4	17808
MB 885-17808/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	17808
LCS 885-17808/6-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	17808
LLCS 885-17808/5-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	17808
MRL 885-18001/14	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 18187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-2	MW-2	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-3	MW-3	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-4	MW-4	Total Recoverable	Water	200.7 Rev 4.4	17808
MRL 885-18187/42	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 18454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-2	MW-2	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-3	MW-3	Total Recoverable	Water	200.7 Rev 4.4	17808
885-16875-4	MW-4	Total Recoverable	Water	200.7 Rev 4.4	17808
MRL 885-18454/26	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

General Chemistry

Analysis Batch: 17913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-1	MW-1	Total/NA	Water	2540C	
885-16875-2	MW-2	Total/NA	Water	2540C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

General Chemistry (Continued)

Analysis Batch: 17913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16875-3	MW-3	Total/NA	Water	2540C	
885-16875-4	MW-4	Total/NA	Water	2540C	
MB 885-17913/1	Method Blank	Total/NA	Water	2540C	
LCS 885-17913/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Client Sample ID: MW-1

Lab Sample ID: 885-16875-1
Matrix: Water
Date Collected: 12/10/24 14:48
Date Received: 12/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	17902	RA	EET ALB	12/17/24 21:30
Total/NA	Analysis	300.0		100	17579	EH	EET ALB	12/12/24 15:11
Total/NA	Analysis	300.0		1000	17697	EH	EET ALB	12/13/24 18:06
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18187	JR	EET ALB	12/19/24 14:13
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18454	VP	EET ALB	12/26/24 06:03
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.8		10	17999	BV	EET ALB	12/17/24 13:52
Total/NA	Analysis	2540C		1	17913	DL	EET ALB	12/17/24 10:06

Client Sample ID: MW-2

Lab Sample ID: 885-16875-2
Matrix: Water
Date Collected: 12/10/24 15:27
Date Received: 12/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	17902	RA	EET ALB	12/17/24 21:54
Total/NA	Analysis	300.0		100	17579	EH	EET ALB	12/12/24 15:33
Total/NA	Analysis	300.0		500	17697	EH	EET ALB	12/13/24 18:58
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18187	JR	EET ALB	12/19/24 14:14
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18454	VP	EET ALB	12/26/24 06:05
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.8		10	17999	BV	EET ALB	12/17/24 13:55
Total/NA	Analysis	2540C		1	17913	DL	EET ALB	12/17/24 10:06

Client Sample ID: MW-3

Lab Sample ID: 885-16875-3
Matrix: Water
Date Collected: 12/10/24 13:34
Date Received: 12/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18251	CM	EET ALB	12/20/24 18:44
Total/NA	Analysis	300.0		100	17579	EH	EET ALB	12/12/24 16:18
Total/NA	Analysis	300.0		1000	17697	EH	EET ALB	12/13/24 19:08
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		5	18001	JR	EET ALB	12/17/24 16:52
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18187	JR	EET ALB	12/19/24 14:16
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18454	VP	EET ALB	12/26/24 06:07
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.8		10	17999	BV	EET ALB	12/17/24 14:07
Total/NA	Analysis	2540C		1	17913	DL	EET ALB	12/17/24 10:06

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Williams Pit

Job ID: 885-16875-1

Client Sample ID: MW-4

Lab Sample ID: 885-16875-4

Date Collected: 12/10/24 14:11
Matrix: Water
Date Received: 12/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18251	CM	EET ALB	12/20/24 19:57
Total/NA	Analysis	300.0		100	17579	EH	EET ALB	12/12/24 17:02
Total/NA	Analysis	300.0		200	17697	EH	EET ALB	12/13/24 19:18
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		5	18001	JR	EET ALB	12/17/24 16:56
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18187	JR	EET ALB	12/19/24 14:18
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		10	18454	VP	EET ALB	12/26/24 06:09
Total Recoverable	Prep	200.2			17808	JE	EET ALB	12/16/24 09:00
Total Recoverable	Analysis	200.8		10	17999	BV	EET ALB	12/17/24 14:09
Total/NA	Analysis	2540C		1	17913	DL	EET ALB	12/17/24 10:06

Client Sample ID: TRIP BLANK

Lab Sample ID: 885-16875-5

Date Collected: 12/10/24 00:00
Matrix: Water
Date Received: 12/12/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18251	CM	EET ALB	12/20/24 20:22

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-16875-1
Project/Site: Williams Pit

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 5509 Champions Drive, Midland TX, 79706

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush EOG TAT

Project Name: WILLIAMS PIT

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF/J. MARTINEZ

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Major

Cooler Temp(including CF): 0.5+0.1=0.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-16875 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	SEE ATTACHED LIST
12/10/24	1448	AQ	MW-1	SEE NOTES	SEE NOTES	1				X
	1527		MW-2			2				
	1334		MW-3			3				
	1411		MW-4			4				
	—		TRIP BLANK	2x HCL VOAs	HCL+ICE	5				

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/11/24	1153				12/11/24	1153
12/11/24	1900			Courier	12/12/24	7:45

Remarks: Bill to EOG Attn Chase Setlle
BOTTLE SETS: 3x 40oz HCL VOAs, 1x 500mL UNPRESERVED PLASTIC, & 1x 125mL HNO_3 PLASTIC

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

Williams Pit Analysis Request

- Arsenic
- Benzene
- Chloride
- Chromium
- Iron
- Manganese
- Selenium
- Silver
- Sulfate
- Total Dissolved Solids

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 885-16875-1

Login Number: 16875

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

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").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

ATTACHMENT 3 – NMOCD CORRESPONDENCE

Subject: Groundwater Sampling Notification NAUTOFAB000741

James Kennedy <James_Kennedy@eogresources.com>
to Velez, Nelson, EMNRD, michael.buchanan@emnrd.nm.gov, Chase Settle

Mr. Velez/ Mr. Buchanan,
Please find attached the groundwater sampling notification for the above referenced site. The sampling notification has also been uploaded to the NMOCD Portal System. Samplir annual groundwater report uploaded to the NMOCD Portal in April 2024. If you have any questions or concerns, please contact myself or Chase Settle.

Regards,
James

James F. Kennedy
Environmental Supervisor
Midland Division
C: 432-258-4346
O: 432-848-9146
eog resources

One attachment • Scanned by Gmail

Subject: RE: [EXTERNAL] Groundwater Sampling Notification NAUTOFAB000741

Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
to James Kennedy, Velez, Nelson, EMNRD, Chase Settle

Good morning, James

Thank you for providing the groundwater sampling notification for the four (4) pits: Williams, Scripps, Lattion and Inex. These notifications will be accepted as part of the record.
Regards,

Mike Buchanan

From: James Kennedy <James_Kennedy@eogresources.com>
Sent: Wednesday, April 24, 2024 9:28 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Cc: Chase Settle <Chase_Settle@eogresources.com>
Subject: [EXTERNAL] Groundwater Sampling Notification NAUTOFAB000741

Mr. Velez/ Mr. Buchanan,
Please find attached the groundwater sampling notification for the above referenced site. The sampling notification has also been uploaded to the NMOCD Portal System. Samplir annual groundwater report uploaded to the NMOCD Portal in April 2024. If you have any questions or concerns, please contact myself or Chase Settle.

Regards,
James

James F. Kennedy
Environmental Supervisor
Midland Division
C: 432-258-4346
O: 432-848-9146
eog resources

James Kennedy <James_Kennedy@eogresources.com> Thu, Sep 12, 2:19 PM (23 hours ago)
to Velez, Nelson, EMNRD, Buchanan, Michael, EMNRD, Chase Settle

Mr. Velez/ Mr. Buchanan,
Please find attached the groundwater sampling notification for the above referenced site. The sampling notification has also been uploaded to the NMOCD Portal System. Sampling will be conducted in accordance with the protocols referenced in the annual groundwater report uploaded to the NMOCD Portal in April 2024. If you have any questions or concerns, please contact myself or Chase Settle.

Regards,
James

James F. Kennedy
Environmental Supervisor
Midland Division
C: 432-258-4346
O: 432-848-9146
eog resources

One attachment • Scanned by Gmail

Williams GW Sample Notice 09232024.pdf

Subject: Groundwater Sample Notice nAUTOFAB000741 (Williams)

James Kennedy <James_Kennedy@eogresources.com> 3:34 PM (34 minutes ag
to Buchanan, Michael, EMNRD, Chase Settle

Mr. Buchanan,
Please find attached the groundwater sampling notification for the above referenced site. The sampling notification has also been uploaded to the NMOCD Portal System. Sampling will be conducted in accordance with the protocols referenced in the annual groundwater report uploaded t the NMOCD Portal in April 2024. If you have any questions or concerns, please contact myself or Chase Settle.

Regards,
James

James F. Kennedy
Environmental Supervisor
Midland Division
C: 432-258-4346
O: 432-848-9146

One attachment • Scanned by Gmail

Site Name	Williams Pit
Location	F-25-18S-26E; Eddy County, NM
Incident ID	NAUTOFAB000741
Source & Description of Activities	Groundwater Sampling
Expected Duration for Activities	Week of 12/09/2024
Env Consultant	Ranger Environmental Services, LLC
Sampling Notification Required	Yes - Starting Tuesday, 12/10/2024 @ 1300 4 samples NMOCD Mr. Mike Buchanan (Michael.Buchanan@emnrd.nm.gov)
Sample Number	4
Driving Directions	Directions to the site can be provided after an email request
Sampler Information	Chase Settle 575-703-6537 chase_settle@eogresources.com

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 446272
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Annual Groundwater Monitoring report for Williams Pit is satisfactory and accepted for the incident record. App ID: 446272. Continue to conduct groundwater monitoring as prescribed and scheduled. Additional wells and further delineation are proposed for the Williams Pit, and has been submitted as App ID: 435299. Further characterization for natural background is proposed, and will sample proposed wells for metals, BTEX, TPH, and sulfates. Submit the 2025 Annual Groundwater Report to OCD no later than April 1, 2026.	5/6/2025