



ASSESSMENT WORKPLAN

**LATTION PIT (AP-23)
INCIDENT NO. NAUTOFAB000337
UNIT O, SECTION 23, TOWNSHIP 18S, RANGE 26E
EDDY COUNTY, NEW MEXICO
32.729187, -104.349760
RANGER REFERENCE NO. 5375**

PREPARED FOR:

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

PREPARED BY:

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JANUARY 28, 2025

A blue ink signature of Patrick K. Finn, consisting of a stylized 'P' followed by a horizontal line and a small flourish.

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

A blue ink signature of William Kierdorf, consisting of a stylized 'W' followed by a horizontal line and a small flourish.

**William Kierdorf, REM
Project Manager**

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1.0 SITE LOCATION AND BACKGROUND

The Lattion Pit (Site) is a historic oil and gas production pit formerly located at the Lattion Battery and former Lattion #1 well pad, an oil and gas production facility located on private land, approximately 8.25 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit O, Section 23, T18S-R26E at GPS coordinates 32.729187, -104.349760. In November 2021, operations of the Lattion Battery were transferred from EOG Resources, Inc. to Silverback Operating II (Silverback). Under the new operator, the Lattion Battery has been decommissioned, the Lattion #1 well has been plugged and abandoned, all production equipment has been removed for the Site, and reclamation efforts have been completed. Based on the site history and transaction history, EOG Resources, Inc. (EOG) maintains environmental responsibility for the impacts related to NAUTOFAB000337 at the Site.

The Lattion #1 well and Lattion Battery were historically operated by H&S Oil Company (H&S) and an unlined earthen pit was formerly utilized by H&S for oil and gas fluid storage/impoundment (hereafter referred to as the "former production pit"). Based upon review of a historical aerial photograph from 1981, a former reserve pit is also located at the site to the north of the Lattion #1 well and to the east of the former production pit.

In 1997, Yates Petroleum Corporation (Yates) acquired from H&S the Lattion #1 well and Lattion Battery, as well as the former production pit. While operated by Yates, the former production pit underwent closure, and assessment of the former pit was conducted. In September 2016, EOG acquired Yates and its associated assets including the Lattion #1 well and Lattion Battery which included the former production pit. The Lattion #1 well was subsequently plugged and abandoned by Silverback in March 2023. In 2024, the Lattion Battery was decommissioned, and all production equipment was removed from the former Lattion Battery/Lattion #1 facility pad.

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 2023 EOG engaged Ranger Environmental Services, LLC (Ranger) to assist in the continuation of the assessment and remediation efforts at the Site as well as to re-establish communications with the NMOCD regarding the Site. In May 2023, Ranger personnel established communications with the NMOCD and began discussion of the Site with Mr. Nelson Velez of the NMOCD including 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, on August 9, 2023, a draft comprehensive *Site Chronology and Status Update* report was submitted to the NMOCD to provide the NMOCD with a summary of the Site history and the cumulative soil and groundwater data so that a regulatory path forward could be established. Due to change in regulatory representative oversight and lack of response to the draft *Site Chronology and Status Update* report submitted to the NMOCD in August 2023, the report was formally submitted to the NMOCD on February 15, 2024.

Based on initial direction by Mr. Velez, an additional groundwater monitoring event was completed in the fourth quarter of 2023. A Ranger prepared *Annual Groundwater Monitoring Report* dated March 26, 2024, (*2023 Annual Groundwater Monitoring Report*) documenting the 2023 sampling activities was submitted to the NMOCD for review.

As proposed in the *2023 Annual Groundwater Monitoring Report*, a quarterly groundwater monitoring program was initiated at the Site beginning in the second quarter of 2024. Groundwater sampling events were completed by Ranger personnel in April, September, and December 2024. Full details of the 2024 groundwater sampling activities will be included in an Annual Groundwater Monitoring Report to be submitted to the NMOCD no later than April 1, 2025.

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 Ranger's *2023 Annual Groundwater Monitoring 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. As such, Ranger has prepared the following assessment workplan to conduct additional soil and groundwater assessment activities at the subject site which incorporates the NMOCD-requested revisions to Ranger's prior assessment workplan.

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 PROPOSED ASSESSMENT ACTIVITIES

2.1 Proposed Monitoring Well Locations

Ranger proposes to install a total of four additional monitoring wells at the subject site at the locations illustrated on the attached *Proposed Monitor Well Location Map*.

As detailed in the Ranger prepared *Site Chronology and Status Update* and *2023 Annual Groundwater Monitoring Report*, existing monitor well MW-1 has been documented to contain the most elevated groundwater TDS, chloride and sulfate concentrations at the Site. Monitor well MW-1 is located upgradient from the subject site and the impacts in this well potentially suggest that affected groundwater may be flowing onto the site from the irrigated agricultural fields to the north. In order to further investigate the upgradient groundwater conditions and determine if affected groundwater may be flowing onto the site, Ranger proposes to install a monitoring well



(PMW-5) to the northwest (upgradient) of the site in an area which is anticipated to be unimpacted by the historic site operations.

As summarized in Ranger's *2023 Annual Groundwater Monitoring Report*, based upon aerial photograph review and review of available site information, it has now become clear that existing monitor well MW-4 was installed through the former site reserve pit, not the former production pit which was the subject of the NMOCD-requested Stage I & II Abatement Plans. Soil sample data collected during the installation of monitor well MW-4 indicates a separation of soil and groundwater impacts at the location. Initial soil borings completed in the former production pit indicated elevated soil and groundwater concentrations were present in the area, however, the limited soil analysis completed during the installation of the borings lacks adequate data linking the elevated soil and groundwater concentrations. As such, Ranger proposes installing proposed monitoring well PMW-6 in the approximate mid-point of the former production pit to further investigate the subsurface conditions at this location.

In order to further assess the groundwater conditions downgradient of the former production pit, Ranger proposes to install proposed monitoring well PMW-7 to the southeast of the former production pit location.

Lastly, Ranger proposes to install a fourth monitoring well (PMW-8) to the west of the subject site in an upgradient/cross-gradient direction from the subject site to further delineate the site groundwater conditions and to gather additional upgradient groundwater quality data.

2.2 Well Installation Methodologies and Soil Sampling

Installation of the proposed monitoring wells will be completed utilizing air rotary drilling techniques. Due to the current declining water table condition, such as the 29.51' water level decline in monitor well MW-1 between 2004 and 2024, Ranger proposes to install the proposed monitoring wells to greater depths than the current on-site monitor wells. Ranger proposes to install proposed monitoring well PMW-5 to a depth of 75' below ground surface (bgs) and PMW's 6-8 to a depth of 80' bgs. Due to the potential for future rebounding of the site water table, Ranger proposes 25 feet of well screen in each well to help ensure that the site water levels remain within the well screen intervals.

During the drilling process, the encountered soils will be described by Ranger personnel on the basis of lithology, color, texture, and visual observations of any potential contaminant impacts. Field screening of the soil column will be completed utilizing an organic vapor monitor (OVM) and a field chloride titration kit. Discrete grab soil samples will be collected for laboratory analysis at approximate five-foot intervals using split spoon sampling techniques. The initial proposed soil sample will be collected at a depth of 5' bgs and samples will then be collected at approximate 5'-intervals to the boring terminal depths.

Upon collection, the soil samples will be transported to an approved laboratory for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using either EPA 300 or SM 4500.

Upon completion of the drilling activities, each soil boring will be completed as a two-inch diameter monitor well. The monitor wells will be completed as follows:

- Two-inch diameter schedule 40 PVC well pipe assembly;
- 25 feet of well screen consisting of 0.010-foot machine-slotted openings with threaded/flush joint assembly with a sufficient length of riser pipe to reach the surface;
- 20-40 graded silica sand placed in the annular space between the borehole and the casing from the bottom of the hole to two feet above the screened interval;
- A minimum of two feet of hydrated bentonite pellets placed above the sand pack;
- Portland cement grout mixture placed from the top of the bentonite pack to the surface; and;
- A 3' x 3' concrete surface completion with an approximate three-foot PVC riser contained within a locking metal shroud, a locking well cap, and protective bollards.

Following the completion of the well installation process, the newly installed monitor wells will be developed by removing five resident well water volumes (or until the well goes dry). A level survey will also be conducted and the top of casing of each monitor well will be surveyed to an existing monitor well.

All produced soil cuttings and purge water will be containerized in 55-gallon drums or other suitable containers and stored on the subject site. The drums will be labeled with the source and date information and will be transported off-site for disposal at an appropriate facility.

2.3 Groundwater Sampling

Following installation, the proposed monitoring wells will be incorporated into the ongoing quarterly groundwater monitoring program detailed in Ranger's *2023 Annual Groundwater Monitoring Report*. However, the groundwater samples collected during the initial sampling of the newly installed wells will be analyzed for the comprehensive chemicals of concern (COCs) that the existing site monitoring wells were initially sampled for rather than the abbreviated list of COCs which were proposed in Ranger's *2023 Annual Groundwater Monitoring Report*. These COCs include the following:

- **EPA Method 200.8:** Antimony, arsenic, lead, selenium, thallium and uranium
- **EPA Method 300.0:** Fluoride, chloride, bromide, phosphorus, orthophosphate (as P), sulfate, Nitrogen, Nitrite (As N), and Nitrogen, Nitrate (As N).
- **SM2510B:** Conductivity
- **SM2320B:** Bicarbonate (as CaCO₃), carbonate (as CaCO₃), and total alkalinity (as CaCO₃)
- **SM2540C MOD:** Total dissolved solids
- **SM4500-H+B / 9040C:** pH
- **EPA METHOD 200.7:** Aluminum, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, silver, sodium, and zinc
- **EPA METHOD 8260B:** Benzene, toluene, ethylbenzene, and total xylenes (BTEX); naphthalene, 1-methylnaphthalene and 2-methylnaphthalene

Following the initial sampling of the newly installed monitor wells for the comprehensive historical site COCs, Ranger will review the analytical results and identify all constituents which were detected in exceedance of the NMAC 20.6.2.3103 criteria. Ranger will then compare these constituents to the reduced groundwater COC list that the existing monitoring wells are currently being analyzed for which include:

- Chloride
- Fluoride
- Iron
- Manganese
- Sulfate
- Total Dissolved Solids

If any COCs are detected in the new monitoring wells which are not on the above list, then these COCs will be added to the above COC list for the future site groundwater monitoring events.

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

3.0 PROPOSED WORK PLAN SCHEDULE AND REPORTING

Upon NMOCD approval of this work plan, the proposed monitoring well installations will be scheduled as soon as possible given driller availability and schedule. The newly installed wells will then be sampled during the next scheduled quarterly groundwater monitoring event. A stand-alone assessment report will be submitted to the NMOCD within 60 days of receipt of the initial groundwater analytical results from the proposed monitoring wells.

The reporting of the completed site assessment activities will include a summary of the monitor well installation activities and will provide copies of the soil boring/monitoring wells logs, the soil analytical results and the initial groundwater analytical results from the proposed monitor wells. The report will also provide recommendations for any needed modifications to the ongoing quarterly groundwater monitoring program, or for any additional assessment activities which may be needed.

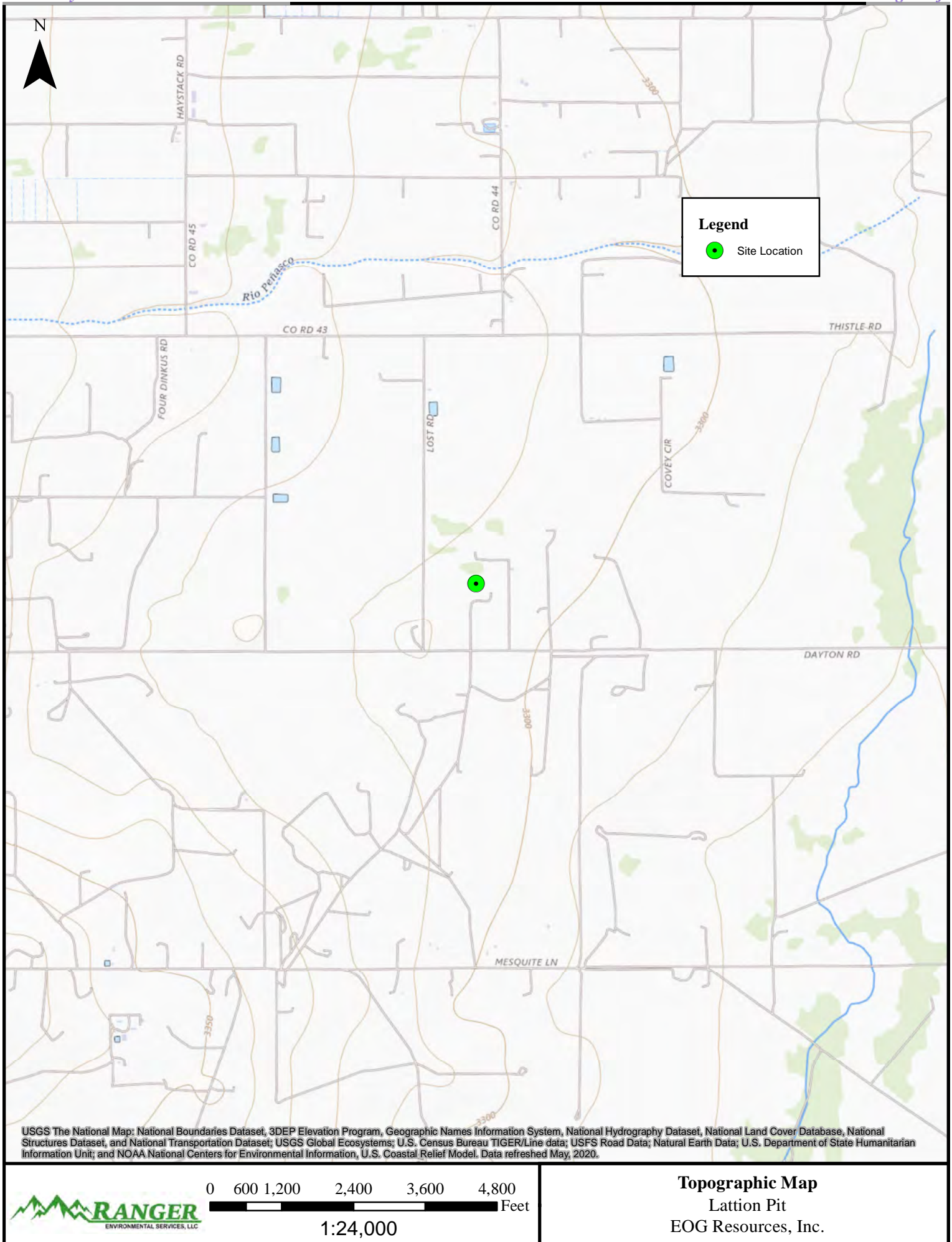
FIGURES

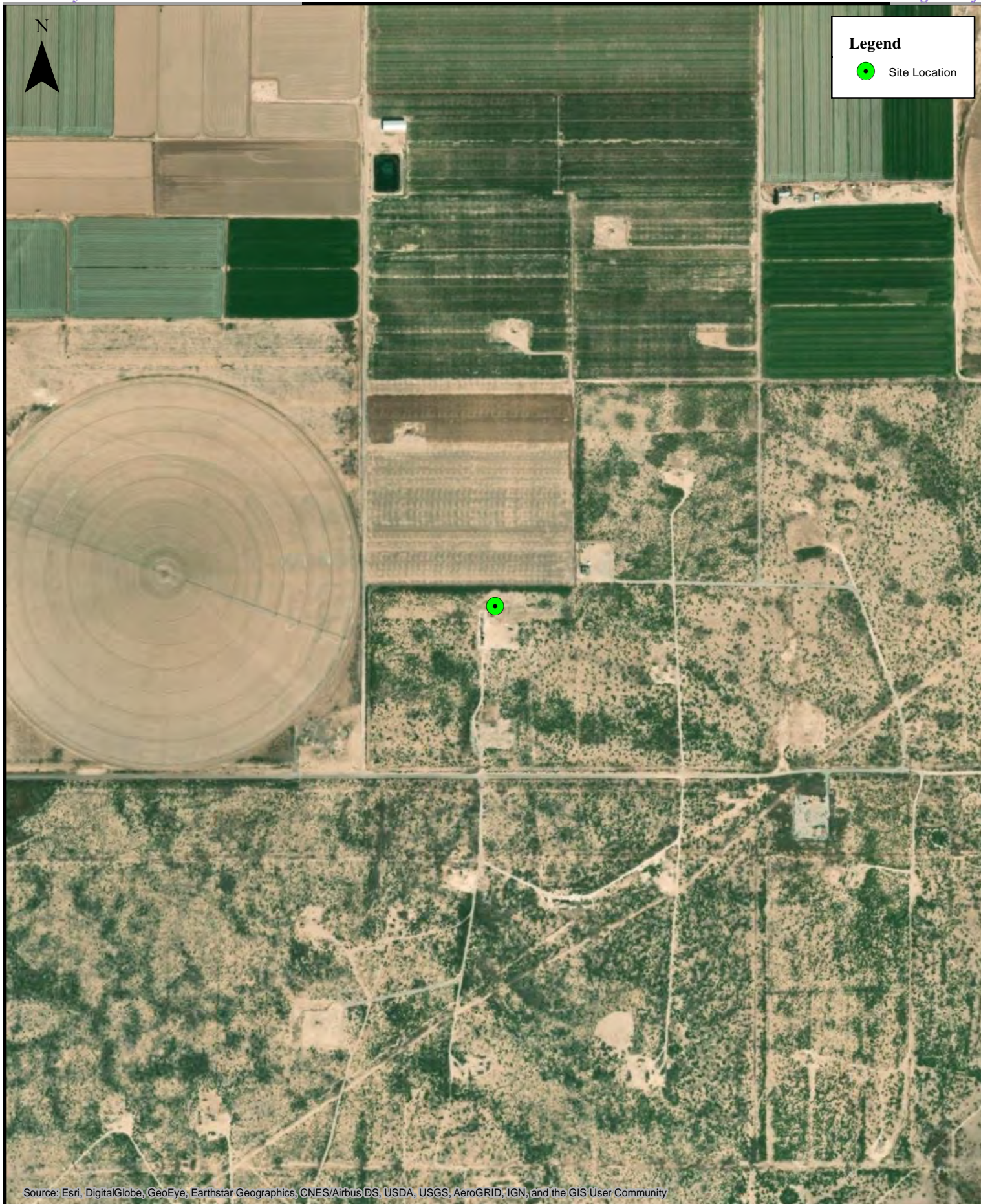
Topographic Map

Area Map

Site Map

Proposed Monitor Well Location Map





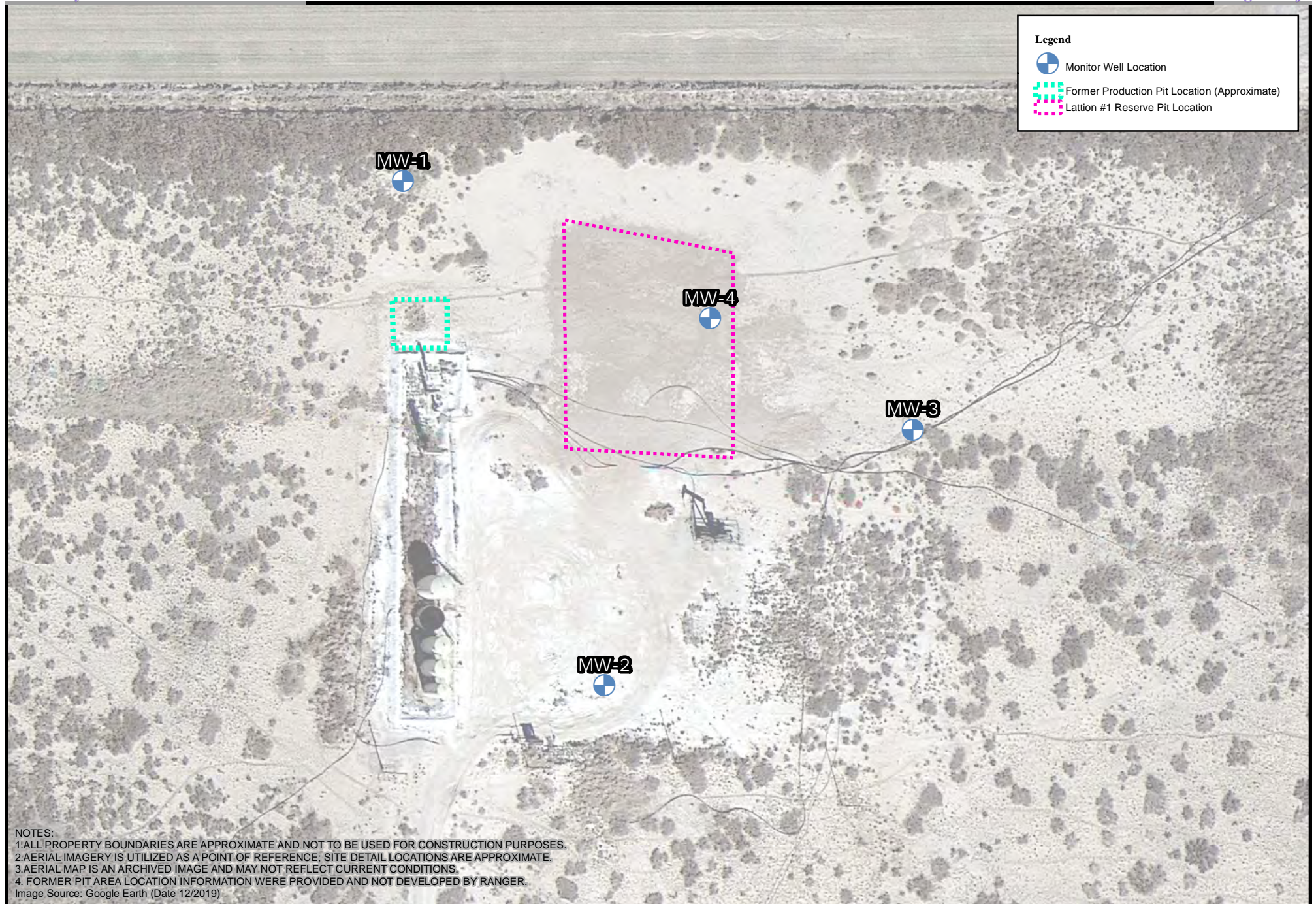
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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

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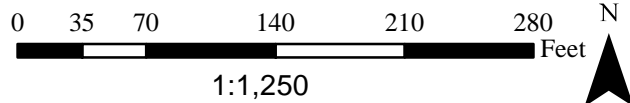
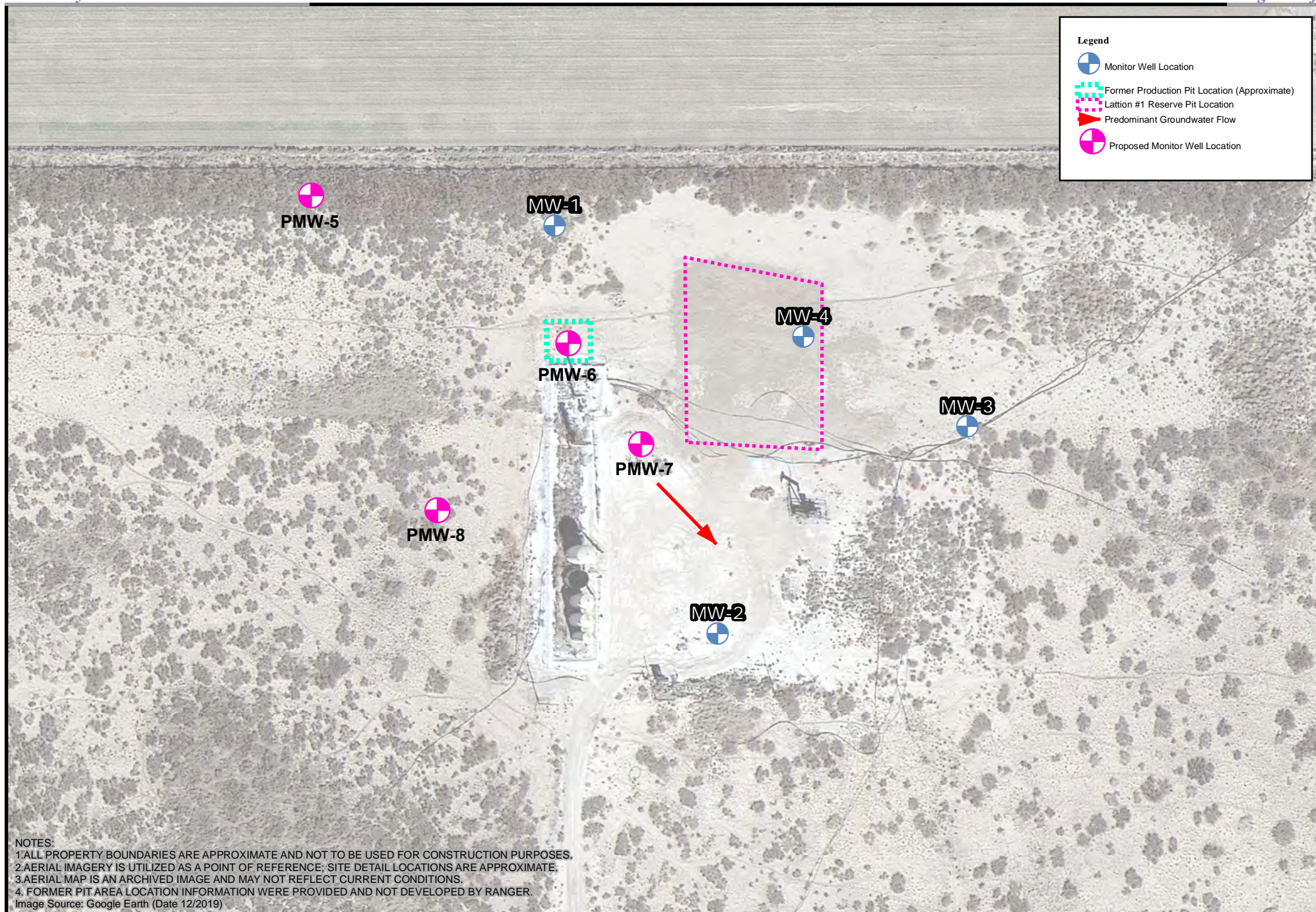
Area Map
Lattion Pit
EOG Resources, Inc.



0 25 50 100 150 200 Feet
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Site Map
Lattions Pit
EOG Resources, Inc.



Proposed Monitor Well Location Map

Lattions 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

CUMULATIVE WELL GAUGING DATA
LATTION PIT
EDDY COUNTY, NEW MEXICO
AP-23

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	3,309.05	34.42	0.00	3274.63	35'-70'
MW-1	9/19/2002	3,309.05	34.54	0.00	3274.51	35'-70'
MW-1	11/3/2004	3,309.05	28.75	0.00	3280.30	35'-70'
MW-1	12/2/2004	3,309.05	31.02	0.00	3278.03	35'-70'
MW-1	12/15/2004	3,309.05	31.94	0.00	3277.11	35'-70'
MW-1	12/21/2004	3,309.05	31.92	0.00	3277.13	35'-70'
MW-1	12/30/2004	3,309.05	32.41	0.00	3276.64	35'-70'
MW-1	3/6/2018	3,309.05	45.66	0.00	3263.39	35'-70'
MW-1	3/27/2018	3,309.05	44.21	0.00	3264.84	35'-70'
MW-1	3/21/2019	3,310.27	48.82	0.00	3261.45	35'-70'
MW-1	10/28/2019	3,310.27	49.59	0.00	3260.68	35'-70'
MW-1	9/17/2020	3,310.27	52.39	0.00	3257.88	35'-70'
MW-1	8/17/2021	3,310.27	48.95	0.00	3261.32	35'-70'
MW-1	11/29/2023	3,310.27	55.17	0.00	3255.10	35'-70'
MW-1	4/30/2024	3,310.27	55.74	0.00	3254.53	35'-70'
MW-1	9/24/2024	3,310.27	58.26	0.00	3252.01	35'-70'
MW-2	9/18/2002	3307.92	61.40	0.00	3246.52	40'-70'
MW-2	9/19/2002	3307.92	61.65	0.00	3246.27	40'-70'
MW-2	11/3/2004	3307.92	62.04	0.00	3245.88	40'-70'
MW-2	12/2/2004	3307.92	61.67	0.00	3246.25	40'-70'
MW-2	12/15/2004	3307.92	61.76	0.00	3246.16	40'-70'
MW-2	12/21/2004	3307.92	61.31	0.00	3246.61	40'-70'
MW-2	12/30/2004	3307.92	61.13	0.00	3246.79	40'-70'
MW-2	3/6/2018	3307.92	54.04	0.00	3253.88	40'-70'
MW-2	3/27/2018	3307.92	53.97	0.00	3253.95	40'-70'
MW-2	3/21/2019	3,309.19	55.54	0.00	3253.65	40'-70'
MW-2	10/28/2019	3,309.19	57.90	0.00	3251.29	40'-70'
MW-2	9/17/2020	3,309.19	58.03	0.00	3251.16	40'-70'
MW-2	8/17/2021	3,309.19	57.73	0.00	3251.46	40'-70'
MW-2	11/29/2023	3,309.19	64.28	0.00	3244.91	40'-70'
MW-2	4/30/2024	3,309.29	63.35	0.00	3245.94	40'-70'
MW-2	9/24/2024	3,309.29	64.57	0.00	3244.72	40'-70'
MW-3	9/18/2002	3307.90	55.08	0.00	3252.82	40'-65'
MW-3	9/19/2002	3307.90	58.73	0.00	3249.17	40'-65'
MW-3	11/3/2004	3307.90	51.28	0.00	3256.62	40'-65'

CUMULATIVE WELL GAUGING DATA
LATTION PIT
EDDY COUNTY, NEW MEXICO
AP-23

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
MW-3	12/2/2004	3307.90	50.38	0.00	3257.52	40'-65'
MW-3	12/15/2004	3307.90	50.30	0.00	3257.60	40'-65'
MW-3	12/21/2004	3307.90	50.01	0.00	3257.89	40'-65'
MW-3	12/30/2004	3307.90	49.91	0.00	3257.99	40'-65'
MW-3	3/6/2018	3307.90	57.43	0.00	3250.47	40'-65'
MW-3	3/27/2018	3307.90	57.38	0.00	3250.52	40'-65'
MW-3	3/21/2019	3309.00	59.13	0.00	3249.87	40'-65'
MW-3	10/28/2019	3309.00	61.29	0.00	3247.71	40'-65'
MW-3	9/17/2020	3309.00	61.75	0.00	3247.25	40'-65'
MW-3	8/17/2021	3309.00	62.22	0.00	3246.78	40'-65'
MW-3	11/29/2023	3309.00	65.74	0.00	3243.26	40'-65'
MW-3	4/30/2024	3309.00	66.40	0.00	3242.60	40'-65'
MW-3	9/24/2024	3309.00	66.52	0.00	3242.48	40'-65'
MW-4	9/18/2002	3307.63	38.17	0.00	3269.46	30'-55'
MW-4	9/19/2002	3307.63	38.23	0.00	3269.40	30'-55'
MW-4	11/3/2004	3307.63	32.95	0.00	3274.68	30'-55'
MW-4	12/2/2004	3307.63	33.96	0.00	3273.67	30'-55'
MW-4	12/15/2004	3307.63	34.43	0.00	3273.20	30'-55'
MW-4	12/21/2004	3307.63	34.32	0.00	3273.31	30'-55'
MW-4	12/30/2004	3307.63	34.70	0.00	3272.93	30'-55'
MW-4	3/6/2018	3307.63	47.31	0.00	3260.32	30'-55'
MW-4	3/27/2018	3307.63	47.47	0.00	3260.16	30'-55'
MW-4	3/21/2019	3308.88	51.51	0.00	3257.37	30'-55'
MW-4	10/28/2019	3308.88	51.39	0.00	3257.49	30'-55'
MW-4	9/17/2020	3308.88	52.58	0.00	3256.30	30'-55'
MW-4	8/17/2021	3308.88	51.49	0.00	3257.39	30'-55'
MW-4	11/29/2023	3308.88	56.19	0.00	3252.69	30'-55'
MW-4	04/30/224	3308.88	56.58	0.00	3252.30	30'-55'
MW-4	9/24/2024	3308.88	57.53	0.00	3251.35	30'-55'
Notes:						
1. Elevations referenced to a temporary on-site benchmark.						
2. MW-1 located immediately adjacent to irrigated field.						
3. BTOC = below top of casing						

CUMULATIVE GROUNDWATER EPA METHOD 300.0: ANIONS

LATTION PIT

EDDY COUNTY, NEW MEXICO

AP-23

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-2	10/20/2000	---	81,535	---	---	---	---	---	---
MW-1	9/19/2002	---	1,770	---	---	---	---	---	---
MW-1	11/3/2004	---	2,899	---	---	---	---	---	---
MW-1	3/17/2012	< 2.0	1,400	2.5	< 10	1,900	---	---	< 1.0
MW-1	6/18/2012	1.3	1,800	3.1	< 0.50	2,000	---	---	< 1.0
MW-1	9/12/2012	1.1	1,600	1.6	< 25	2,000	---	---	< 1.0
MW-1	12/6/2012	1	1,700	< 2.0	< 0.50	2,000	< 2.0	<0.10	---
MW-1	3/12/2013	1.9	1,500	2.3	< 10	1,800	---	---	< 2.0
MW-1	6/27/2013	1.3	1,400	2.1	< 0.50	1,600	---	---	< 1.0
MW-1	3/27/2018	0.42	1,700	2.2	< 0.50	1,700	---	---	< 1.0
MW-1	3/21/2019	0.62	1,500	2.1	< 0.50	1,600	---	---	< 1.0
MW-1	10/28/2019	1	1,500	2	< 0.50	1,600	<2.0	<0.10	---
MW-1	9/17/2020	1.1	1,400	2.3	< 2.5	1,500	---	---	< 1.0
MW-1	8/17/2021	2	1,800	2.5	< 2.5	1,800	<2.0	<0.50	---
MW-1	3/21/2022	2	1,600	2.6	< 10	1,500	---	---	< 1.0
MW-1	8/4/2022	3.2	1,500	3.2	< 10	1,800	---	---	< 1.0
MW-1	11/29/2023	<2.0	2,000	1.1	< 0.50	2,000	<2.0	<0.10	---
MW-1	4/30/2024	<2.0	1,800	---	---	1,900	---	---	---
MW-1	9/24/2024	<2.0	1,800	---	---	1,800	---	---	---
MW-2	9/19/2002	---	709	---	---	---	---	---	---
MW-2	11/3/2004	---	740	---	---	---	---	---	---
MW-2	3/17/2012	1.3	790	1	< 0.50	1,200	---	---	2.2
MW-2	6/18/2012	1.2	790	1.6	< 0.50	1,200	---	---	1.5
MW-2	9/12/2012	0.6	940	1.2	< 25	1,300	---	---	3.2
MW-2	12/6/2012	0.98	890	< 2.0	< 0.50	1,200	<2.0	4.5	---
MW-2	3/12/2013	0.62	880	1.2	< 10	1,200	---	---	2.8
MW-2	6/27/2013	0.98	720	1.4	< 0.50	1,000	---	---	3.2
MW-2	3/27/2018	0.44	640	1.1	< 0.50	980	---	---	2.4
MW-2	3/21/2019	1	810	1.1	< 0.50	1,100	---	---	2
MW-2	10/28/2019	0.87	800	1.2	< 2.5	1,000	<0.50	2.6	---
MW-2	9/17/2020	<0.10	760	1.2	< 0.50	1,000	---	---	2.4
MW-2	8/17/2021	0.9	730	1.1	< 2.5	1,100	<0.50	2.3	---
MW-2	3/21/2022	< 2.0	690	1	< 10	1,000	---	---	2.3
MW-2	8/4/2022	0.75	890	1.2	< 0.50	1,100	---	---	1.9
MW-2	11/29/2023	0.84	810	0.67	< 0.50	1,100	<2.0	3.0	---

CUMULATIVE GROUNDWATER EPA METHOD 300.0: ANIONS

LATTION PIT

EDDY COUNTY, NEW MEXICO

AP-23

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-2	4/30/2024	0.38	530	---	---	1,100	---	---	---
MW-2	9/24/2024	0.79	450	---	---	920	---	---	---
MW-3	9/19/2002	---	59.1	---	---	---	---	---	---
MW-3	11/3/2004	---	64	---	---	---	---	---	---
MW-3	3/17/2012	< 2.0	42	0.13	< 0.50	950	---	---	< 1.0
MW-3	6/18/2012	1.4	45	0.2	< 0.50	900	---	---	< 1.0
MW-3	9/12/2012	1.3	45	0.11	< 10	990	---	---	< 1.0
MW-3	12/6/2012	1.3	45	0.1	< 0.50	1,000	<0.10	<0.10	---
MW-3	3/12/2013	1.4	43	0.12	< 10	960	---	---	< 1.0
MW-3	6/27/2013	1.4	43	0.12	< 0.50	1,000	---	---	< 1.0
MW-3	3/27/2018	1.7	41	0.15	< 0.50	880	---	---	< 1.0
MW-3	3/21/2019	1.6	47	0.12	< 0.50	900	---	---	< 1.0
MW-3	10/28/2019	1.6	45	< 0.50	< 2.5	870	<0.50	<0.50	---
MW-3	9/17/2020	1.3	45	< 0.50	< 2.5	920	---	---	< 1.0
MW-3	8/17/2021	1.5	43	0.13	< 0.50	880	<0.10	<0.10	---
MW-3	3/21/2022	1.4	42	0.14	< 0.50	970	---	---	< 1.0
MW-3	8/4/2022	1.3	42	0.15	< 0.50	860	---	---	< 1.0
MW-3	11/29/2023	1.3	43	0.14	< 0.50	890	<0.10	<0.10	---
MW-3	4/30/2024	1.4	42	---	---	870	---	---	---
MW-4	9/19/2002	---	1,280	---	---	---	---	---	---
MW-4	11/3/2004	---	1,899	---	---	---	---	---	---
MW-4	3/17/2012	< 2.0	1,200	< 2.0	< 10	1,800	---	---	< 1.0
MW-4	6/18/2012	1.7	1,200	2.3	< 0.50	1,800	---	---	< 1.0
MW-4	9/12/2012	1.3	1,200	1.5	< 25	2,000	---	---	< 1.0
MW-4	12/6/2012	1.1	1,200	< 2.0	< 0.50	1,800	<2.0	<0.10	---
MW-4	3/12/2013	1.9	1,100	1.5	< 10	1,700	---	---	< 1.0
MW-4	6/27/2013	1.2	1,000	1.7	< 0.50	1,600	---	---	< 1.0
MW-4	3/27/2018	0.62	930	1.7	< 0.50	1,400	---	---	< 1.0
MW-4	3/21/2019	0.87	1,100	1.5	< 0.50	1,700	---	---	< 1.0
MW-4	10/28/2019	1.2	990	1.5	< 0.50	1,500	<2.0	<0.10	---
MW-4	9/17/2020	1.2	960	1.7	< 2.5	1,500	---	---	< 1.0
MW-4	8/17/2021	2.5	1,100	1.6	< 2.5	1,800	<0.50	<0.50	---
MW-4	3/21/2022	< 2.0	1,100	1.7	< 10	1,700	---	---	< 1.0
MW-4	8/4/2022	2.2	1,000	1.6	< 0.50	1,700	---	---	< 1.0
MW-4	11/29/2023	1.2	960	0.57	< 0.50	1,700	<2.0	<0.10	---

CUMULATIVE GROUNDWATER EPA METHOD 300.0: ANIONS									
LATTION PIT									
EDDY COUNTY, NEW MEXICO									
AP-23									
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-4	4/30/2024	0.55	910	---	---	1,600	---	---	---
MW-4	9/24/2024	1.1	930	---	---	1,500	---	---	---
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.									

CUMULATIVE GROUNDWATER DISSOLVED METALS (TABLE 1 OF 2) LATTION PIT EDDY COUNTY, NEW MEXICO AP-23 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	---	0.02	---	---	< 0.0020	880	< 0.0060	---	0.41	350	0.032	---	---	4.8	< 0.0050	290	0.015
MW-1	6/18/2012	---	0.018	---	---	< 0.0020	940	< 0.0060	---	< 0.020	350	0.028	---	---	4.3	< 0.0050	370	0.012
MW-1	9/12/2012	---	0.02	---	---	< 0.0020	830	< 0.0060	---	0.68	320	0.25	---	---	4.2	< 0.0050	230	0.017
MW-1	12/6/2012	---	0.022	---	---	< 0.0020	940	< 0.0060	---	< 0.020	370	0.2	---	---	5.5	< 0.0050	310	0.033
MW-1	3/12/2013	---	0.019	---	---	< 0.0020	820	< 0.0060	---	0.2	300	0.33	---	---	4.3	< 0.0050	230	< 0.010
MW-1	6/27/2013	---	0.018	---	---	< 0.0020	910	< 0.0060	---	0.031	300	0.16	---	---	4.9	< 0.050	200	0.021
MW-1	3/27/2018	---	0.015	---	---	< 0.0020	910	< 0.0060	---	< 0.020	350	0.14	---	---	4.2	0.031	280	0.02
MW-1	3/21/2019	< 0.020	0.014	< 0.0020	0.32	< 0.0020	940	< 0.0060	< 0.0060	0.048	320	0.22	< 0.0080	< 0.010	4.1	0.011	230	0.017
MW-1	10/28/2019	< 0.020	0.018	< 0.0020	0.35	< 0.0020	920	< 0.0060	< 0.0060	< 0.020	330	0.14	< 0.0080	< 0.010	4.3	0.016	230	0.046
MW-1	9/17/2020	<0.10	0.017	< 0.010	0.39	< 0.010	970	< 0.030	< 0.030	<0.10	370	0.25	< 0.040	< 0.050	5.1	< 0.025	320	<0.050
MW-1	8/17/2021	< 0.10	0.04	< 0.010	0.36	< 0.010	940	< 0.030	< 0.030	0.3	370	1.7	< 0.040	< 0.050	5.3	< 0.025	270	< 0.050
MW-1	3/21/2022	< 0.020	0.027	< 0.0020	0.39	< 0.0020	1,000	< 0.0060	0.0071	1.2	340	0.33	< 0.0080	< 0.010	6.1	< 0.0050	250	< 0.010
MW-1	8/4/2022	< 0.20	< 0.020	< 0.020	< 0.40	< 0.020	920	< 0.060	< 0.060	< 0.20	330	0.13	< 0.080	< 0.10	< 10	< 0.050	220	0.29
MW-1	11/29/2023	< 0.020	0.018	< 0.0020	0.37	< 0.0020	980	< 0.0060	< 0.0060	< 0.020	410	0.077	< 0.0080	< 0.010	5.3	0.023	400	< 0.010
MW-1	4/30/2024	---	---	---	---	---	---	---	---	< 0.020	---	0.18	---	---	---	---	---	---
MW-1	9/24/2024	---	---	---	---	---	---	---	---	< 0.020	---	0.16	---	---	---	---	---	---
MW-2	3/17/2012	---	0.014	---	---	< 0.0020	570	< 0.0060	---	0.044	180	0.0027	---	---	4.6	< 0.0050	81	< 0.010
MW-2	6/18/2012	---	0.014	---	---	< 0.0020	550	< 0.0060	---	0.061	180	0.0032	---	---	4.6	< 0.0050	89	0.01
MW-2	9/12/2012	---	0.013	---	---	< 0.0020	570	< 0.0060	---	0.041	180	0.0026	---	---	4.1	< 0.0050	86	0.011
MW-2	12/6/2012	---	0.016	---	---	< 0.0020	600	< 0.0060	---	< 0.020	200	0.0023	---	---	5.1	< 0.0050	100	< 0.010
MW-2	3/12/2013	---	0.012	---	---	< 0.0020	560	< 0.0060	---	0.023	180	0.0021	---	---	4.6	< 0.0050	92	< 0.010
MW-2	6/27/2013	---	0.013	---	---	< 0.0020	610	< 0.0060	---	0.035	170	0.0021	---	---	4.7	< 0.050	87	< 0.010
MW-2	3/27/2018	---	0.013	---	---	< 0.0020	580	< 0.0060	---	0.04	180	0.0023	---	---	4.5	0.021	97	0.028
MW-2	3/21/2019	< 0.020	0.012	< 0.0020	0.067	< 0.0020	570	< 0.0060	< 0.0060	0.025	170	0.0025	< 0.0080	< 0.010	4.2	0.0079	85	0.022
MW-2	10/28/2019	< 0.020	0.012	< 0.0020	0.067	< 0.0020	600	< 0.0060	< 0.0060	0.026	190	< 0.0020	< 0.0080	< 0.010	4.5	0.015	94	0.031
MW-2	9/17/2020	<0.10	0.015	<0.010	<0.20	<0.010	610	<0.030	<0.030	<0.10	200	< 0.010	<0.040	<0.050	5.4	<0.025	100	<0.050
MW-2	8/17/2021	< 0.020	0.012	< 0.0020	0.071	< 0.0020	510	< 0.0060	< 0.0060	0.039	160	0.0029	< 0.0080	< 0.010	4.5	< 0.0050	89	0.015
MW-2	3/21/2022	< 0.020	0.014	< 0.0020	0.083	< 0.0020	520	< 0.0060	< 0.0060	0.027	160	0.0041	< 0.0080	< 0.010	4.3	< 0.0050	100	0.011
MW-2	8/4/2022	< 0.20	< 0.020	< 0.020	< 0.40	< 0.020	570	< 0.060	< 0.060	< 0.20	180	< 0.020	< 0.080	< 0.10	< 10	< 0.050	99	< 0.10
MW-2	11/29/2023	< 0.020	0.010	< 0.0020	0.062	< 0.0020	610	< 0.0060	< 0.0060	< 0.020	200	< 0.0020	< 0.0080	< 0.010	4.7	0.014	110	< 0.010
MW-2	4/30/2024	---	---	---	---	---	---	---	---	0.020	---	0.0030	---	---	---	---	---	---
MW-2	9/24/2024	---	---	---	---	---	---	---	---	<0.020	---	0.050	---	---	---	---	---	---
MW-3	3/17/2012	---	0.019	---	---	< 0.0020	270	< 0.0060	---	< 0.020	100	0.042	---	---	2.7	< 0.0050	34	0.016
MW-3	6/18/2012	---	0.017	---	---	< 0.0020	270	< 0.0060	---	< 0.020	99	0.0029	---	---	2.8	< 0.0050	36	0.026
MW-3	9/12/2012	---	0.017	---	---	< 0.0020	270	< 0.0060	---	< 0.020	97	0.03	---	---	2.3	< 0.0050	33	< 0.010
MW-3	12/6/2012	---	0.019	---	---	< 0.0020	270	< 0.0060	---	< 0.020	110	< 0.0020	---	---	3.2	< 0.0050	39	< 0.010
MW-3	3/12/2013	---	0.018	---	---	< 0.0020	240	< 0.0060	---	0.22	92	0.06	---	---	2.4	< 0.0050	34	< 0.010
MW-3	6/27/2013	---	0.018	---	---	< 0.0020	260	< 0.0060	---	< 0.020	98	0.0034	---	---	2.8	< 0.025	34	< 0.010
MW-3	3/27/2018	---	0.018	---	---	< 0.0020	280	< 0.0060	---	< 0.020	100	0.089	---	---	2.8	0.011	37	0.032
MW-3	3/21/2019	< 0.020	0.018	< 0.0020	0.11	< 0.0020	270	< 0.0060	< 0.0060	< 0.020	95	0.037	0.009	< 0.010	2.5	< 0.0050	34	0.027

CUMULATIVE GROUNDWATER DISSOLVED METALS (TABLE 1 OF 2) LATTION PIT EDDY COUNTY, NEW MEXICO AP-23 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	10/28/2019	< 0.020	0.018	< 0.0020	0.11	< 0.0020	240	< 0.0060	< 0.0060	< 0.020	100	0.012	< 0.0080	< 0.010	2.8	0.0071	34	0.068
MW-3	9/17/2020	<0.10	0.018	<0.010	<0.20	<0.010	290	<0.030	<0.030	<0.10	110	0.011	<0.040	<0.050	<5.0	<0.025	36	<0.050
MW-3	8/17/2021	< 0.020	0.019	< 0.0020	0.12	< 0.0020	280	< 0.0060	< 0.0060	< 0.020	100	< 0.0020	< 0.0080	< 0.010	2.7	< 0.0050	33	0.047
MW-3	3/21/2022	< 0.020	0.024	< 0.0020	0.14	< 0.0020	270	< 0.0060	< 0.0060	< 0.020	100	0.22	< 0.0080	< 0.010	3	< 0.0050	40	0.014
MW-3	8/4/2022	< 0.20	0.021	< 0.020	< 0.40	< 0.020	280	< 0.060	< 0.060	< 0.20	110	< 0.020	< 0.080	< 0.10	< 10	< 0.050	34	0.19
MW-3	11/29/2023	< 0.020	0.021	< 0.0020	0.11	< 0.0020	280	< 0.0060	< 0.0060	< 0.020	110	0.0074	< 0.0080	< 0.010	2.8	0.0072	33	< 0.010
MW-3	4/30/2024	---	---	---	---	---	---	---	---	< 0.020	---	0.051	---	---	---	---	---	---
MW-4	3/17/2012	---	0.016	---	---	< 0.0020	780	< 0.0060	---	0.071	310	0.051	---	---	3.6	< 0.0050	200	0.012
MW-4	6/18/2012	---	0.016	---	---	< 0.0020	780	< 0.0060	---	0.14	300	0.073	---	---	3.5	< 0.0050	220	0.043
MW-4	9/12/2012	---	0.013	---	---	< 0.0020	760	< 0.0060	---	0.021	300	0.048	---	---	3.2	< 0.0050	200	< 0.010
MW-4	12/6/2012	---	0.016	---	---	< 0.0020	780	< 0.0060	---	0.086	320	0.076	---	---	4.2	< 0.0050	230	0.02
MW-4	3/12/2013	---	0.013	---	---	< 0.0020	710	< 0.0060	---	0.089	280	0.049	---	---	3.7	< 0.0050	180	0.038
MW-4	6/27/2013	---	0.014	---	---	< 0.0020	750	< 0.0060	---	0.27	280	0.063	---	---	4.3	< 0.050	180	0.019
MW-4	3/27/2018	---	0.011	---	---	< 0.0020	770	< 0.0060	---	0.023	290	0.027	---	---	3.7	0.025	150	0.027
MW-4	3/21/2019	< 0.020	0.011	< 0.0020	0.16	< 0.0020	750	< 0.0060	< 0.0060	< 0.020	280	0.031	< 0.0080	< 0.010	3.5	0.0092	140	0.03
MW-4	10/28/2019	< 0.020	0.012	0.0023	0.17	< 0.0020	720	< 0.0060	< 0.0060	< 0.020	250	0.032	< 0.0080	< 0.010	3.6	0.019	130	0.023
MW-4	9/17/2020	<0.10	0.012	<0.010	<0.20	<0.010	760	<0.030	<0.030	<0.10	300	0.053	<0.040	<0.050	<5.0	<0.025	150	<0.050
MW-4	8/17/2021	< 0.020	0.012	< 0.0020	0.19	< 0.0020	710	< 0.0060	< 0.0060	0.03	280	0.042	< 0.0080	< 0.010	4.2	< 0.0050	140	0.019
MW-4	3/21/2022	< 0.020	0.014	< 0.0020	0.2	< 0.0020	730	< 0.0060	0.0066	< 0.020	300	0.035	< 0.0080	< 0.010	4	< 0.0050	150	< 0.010
MW-4	8/4/2022	< 0.20	< 0.020	< 0.020	< 0.40	< 0.020	720	< 0.060	< 0.060	< 0.20	290	0.036	< 0.080	< 0.10	< 10	< 0.050	120	< 0.10
MW-4	11/29/2023	0.12	0.010	< 0.0020	0.16	< 0.0020	720	< 0.0060	< 0.0060	0.24	290	0.043	< 0.0080	< 0.010	3.8	0.016	140	< 0.010
MW-4	4/30/2024	---	---	---	---	---	---	---	---	0.04	---	0.076	---	---	---	---	---	---
MW-4	9/24/2024	---	---	---	---	---	---	---	---	<0.020	---	0.11	---	---	---	---	---	---
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)																		
A. Human Health Standards																		
B. Other Standards for Domestic Water Supply																		
C. Standards for Irrigation Use																		
Notes:																		
1. Exceedances of the listed closure criteria are highlighted in bold, red type.																		

CUMULATIVE GROUNDWATER DISSOLVED METALS (TABLE 2 OF 2)

LATTION PIT

EDDY COUNTY, NEW MEXICO

AP-23

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	---	0.0015	< 0.0060	< 0.0050	< 0.00020	0.0052	---	0.002
MW-1	6/18/2012	---	0.0021	< 0.0060	< 0.0050	< 0.00020	0.0086	---	0.0027
MW-1	9/12/2012	---	0.0023	0.0062	< 0.0010	< 0.00020	0.0083	---	0.0057
MW-1	12/6/2012	---	0.0018	< 0.0060	< 0.0010	< 0.00020	0.0093	---	0.0045
MW-1	3/12/2013	---	0.0025	< 0.0060	< 0.0050	< 0.00020	0.0045	---	0.0027
MW-1	6/27/2013	---	0.0063	< 0.0060	< 0.0050	< 0.00020	0.022	---	< 0.0050
MW-1	3/27/2018	---	< 0.0050	< 0.0050	< 0.0025	< 0.00020	< 0.0050	---	< 0.0025
MW-1	3/21/2019	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.00020	< 0.010	< 0.0025	< 0.0050
MW-1	10/28/2019	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	< 0.0050	< 0.0025	< 0.0025
MW-1	9/17/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	< 0.010	< 0.0050	< 0.0050
MW-1	8/17/2021	< 0.0010	0.0023	< 0.030	< 0.0025	---	< 0.0010	< 0.0012	< 0.0025
MW-1	3/21/2022	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	< 0.0050	< 0.0012	0.0036
MW-1	8/4/2022	< 0.0010	0.0016	< 0.060	< 0.00050	---	< 0.0010	< 0.00025	0.0009
MW-1	11/29/2023	< 0.0050	0.0073	< 0.0060	< 0.0025	---	< 0.0050	< 0.0012	0.0028
MW-2	3/17/2012	---	0.0019	< 0.0060	< 0.0050	< 0.00020	0.025	---	0.0061
MW-2	6/18/2012	---	0.0022	< 0.0060	< 0.0050	< 0.00020	0.024	---	0.0069
MW-2	9/12/2012	---	0.0019	0.0021	< 0.0010	< 0.00020	0.027	---	0.0071
MW-2	12/6/2012	---	0.0018	< 0.0060	< 0.0010	< 0.00020	0.026	---	0.0078
MW-2	3/12/2013	---	0.0017	< 0.0060	0.0060	< 0.00020	0.026	---	0.0068
MW-2	6/27/2013	---	0.0045	< 0.0060	< 0.0050	< 0.00020	0.037	---	0.0069
MW-2	3/27/2018	---	< 0.0050	< 0.0010	< 0.0025	< 0.00020	0.017	---	0.0059
MW-2	3/21/2019	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.00020	0.013	< 0.00050	0.0054
MW-2	10/28/2019	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	0.018	< 0.0025	0.0058
MW-2	9/17/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.013	< 0.0050	0.0052
MW-2	8/17/2021	< 0.0010	< 0.0010	< 0.0060	< 0.00050	---	0.012	< 0.00025	0.0054
MW-2	3/21/2022	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	0.012	< 0.0012	0.0043
MW-2	8/4/2022	< 0.0010	0.0011	< 0.060	< 0.00050	---	0.016	< 0.00025	0.0056
MW-2	11/29/2023	< 0.0050	0.0044	< 0.0060	0.0051	---	0.020	< 0.0012	0.0055
MW-3	3/17/2012	---	0.0012	< 0.0060	< 0.0050	< 0.00020	< 0.0010	---	< 0.0010
MW-3	6/18/2012	---	< 0.0010	< 0.0060	< 0.0050	< 0.00020	< 0.0010	---	< 0.0010
MW-3	9/12/2012	---	0.0012	0.0021	< 0.0010	< 0.00020	< 0.0010	---	< 0.0010
MW-3	12/6/2012	---	< 0.0010	< 0.0060	< 0.0010	< 0.00020	0.001	---	0.0011
MW-3	3/12/2013	---	< 0.0010	< 0.0060	0.0064	< 0.00020	< 0.0010	---	< 0.0010
MW-3	6/27/2013	---	0.0013	< 0.0060	< 0.0050	< 0.00020	0.0027	---	0.0011
MW-3	3/27/2018	---	0.0011	< 0.0010	< 0.00050	< 0.00020	< 0.0010	---	0.00057
MW-3	3/21/2019	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.00020	< 0.010	< 0.00050	< 0.0050
MW-3	10/28/2019	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	< 0.0050	< 0.0025	< 0.0025
MW-3	9/17/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	< 0.010	< 0.0050	< 0.0050
MW-3	8/17/2021	< 0.0010	0.0014	< 0.0060	< 0.00050	---	< 0.0010	< 0.00025	0.00056
MW-3	3/21/2022	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	< 0.0050	< 0.0012	< 0.0025
MW-3	8/4/2022	< 0.0010	0.0024	< 0.060	< 0.00050	---	< 0.0010	< 0.00025	0.00057
MW-3	11/29/2023	< 0.0050	0.0030	< 0.0060	< 0.0025	---	< 0.0050	< 0.0012	< 0.0025

CUMULATIVE GROUNDWATER DISSOLVED METALS (TABLE 2 OF 2)
LATTION PIT
EDDY COUNTY, NEW MEXICO
AP-23

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	---	0.0014	< 0.0060	< 0.0050	< 0.00020	0.0042	---	0.0036
MW-4	6/18/2012	---	0.002	< 0.0060	< 0.0050	< 0.00020	0.0058	---	0.0036
MW-4	9/12/2012	---	0.0017	< 0.0050	< 0.0050	< 0.00020	< 0.0050	---	0.0033
MW-4	12/6/2012	---	0.0014	< 0.0060	< 0.0010	< 0.00020	0.0059	---	0.0037
MW-4	3/12/2013	---	0.0012	< 0.0060	< 0.0050	< 0.00020	0.0036	---	0.0028
MW-4	6/27/2013	---	0.0041	< 0.0060	< 0.0050	< 0.00020	0.017	---	0.0025
MW-4	3/27/2018	---	< 0.0050	< 0.0050	< 0.0025	< 0.00020	< 0.0050	---	< 0.0025
MW-4	3/21/2019	< 0.0010	< 0.0010	0.0015	< 0.00050	< 0.00020	< 0.010	< 0.00050	< 0.0050
MW-4	10/28/2019	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	< 0.0050	< 0.0025	< 0.0025
MW-4	9/17/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	< 0.010	< 0.0050	< 0.0050
MW-4	8/17/2021	< 0.0010	0.001	< 0.0060	< 0.0025	---	< 0.0010	< 0.0012	< 0.0025
MW-4	3/21/2022	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	< 0.0050	< 0.0012	< 0.0025
MW-4	8/4/2022	< 0.0010	0.0016	< 0.060	< 0.00050	---	< 0.0010	< 0.00025	0.00096
MW-4	11/29/2023	< 0.0050	0.0054	< 0.0060	< 0.0025	---	< 0.0050	< 0.0012	< 0.0025

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.

CUMULATIVE GROUNDWATER TPH AND VOC DATA SUMMARY														
LATTION PIT														
EDDY COUNTY, NEW MEXICO														
AP-23														
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-2	10/20/2000	<1.00	<0.5	<0.5	---	0.004	<0.001	<0.001	<0.002	---	---	---	---	---
MW-1	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	---	---	---
MW-1	11/3/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-1	3/17/2012	---	---	---	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.004	<0.008	<0.008
MW-1	6/18/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-1	9/12/2012	---	---	---	---	<0.002	<0.002	<0.002	<0.004	---	---	<0.004	---	---
MW-1	12/6/2012	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
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	3/27/2018	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	3/21/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-1	10/28/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	9/17/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	8/17/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	3/21/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	8/4/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	---	---	---
MW-2	11/3/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-2	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
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	12/6/2012	---	---	---	---	<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	3/27/2018	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	3/21/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-2	10/28/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	9/17/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	8/17/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	3/21/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	8/4/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	---	---	---
MW-3	11/3/2004	---	---	---	---	<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	12/6/2012	---	---	---	---	<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	---	---

CUMULATIVE GROUNDWATER TPH AND VOC DATA SUMMARY														
LATTION PIT														
EDDY COUNTY, NEW MEXICO														
AP-23														
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	6/27/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-3	3/27/2018	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	3/21/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-3	10/28/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	9/17/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	8/17/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	3/21/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	8/4/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	---	---	---
MW-4	11/3/2004	---	---	---	---	<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	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	12/6/2012	---	---	---	---	<0.001	<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	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	3/27/2018	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	3/21/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-4	10/28/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	9/17/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	8/17/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	3/21/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	8/4/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)														
A. Human Health Standards														
B. Other Standards for Domestic Water Supply														
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.														

**CUMULATIVE GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS
LATTION PIT
EDDY COUNTY, NEW MEXICO
AP-23**

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

SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO ₃)	Carbonate (As CaCO ₃)	Total Alkalinity (as CaCO ₃)	
MW-1	9/19/2002	---	---	---	---	---	6,140
MW-1	11/3/2004	---	---	---	---	---	8,172
MW-1	3/17/2012	6300	7.07	170	< 2.0	170	5,080
MW-1	6/18/2012	6700	7.19	200	< 2.0	200	5,940
MW-1	9/12/2012	6600	---	160	< 2.0	160	5,270
MW-1	12/6/2012	7000	7.13	170	< 2.0	170	5,760
MW-1	3/12/2013	6500	7.38	160	< 2.0	160	5,380
MW-1	6/27/2013	6800	7.28	140	< 2.0	140	5,330
MW-1	3/27/2018	6600	7.48	151.7	< 2.000	151.7	5,460
MW-1	3/21/2019	6400	6.99	177.8	< 2.000	177.8	5,230
MW-1	10/28/2019	6900	7.39	168.6	< 2.000	168.6	5,550
MW-1	9/17/2020	7000	7.41	169.8	< 2.000	169.8	5,650
MW-1	8/17/2021	7500	7.05	186.4	< 2.000	186.4	5,970
MW-1	3/21/2022	7200	7.76	152.8	< 2.000	152.8	6,140
MW-1	8/4/2022	6800	7.53	124.9	< 2.000	124.9	5,990
MW-1	11/29/2023	8100	7.33	205.2	< 2.000	205.2	6,400
MW-1	4/30/2024	---	---	---	---	---	6,200
MW-1	9/24/2024	---	---	---	---	---	6,400
MW-2	9/19/2002	---	---	---	---	---	3,420
MW-2	11/3/2004	---	---	---	---	---	3,216
MW-2	3/17/2012	3,800	7.28	150	< 2.0	150	3,090
MW-2	6/18/2012	3,900	7.34	150	< 2.0	150	3,260
MW-2	9/12/2012	4,300	---	140	< 2.0	140	3,370
MW-2	12/6/2012	4,300	7.75	140	< 2.0	140	3,510
MW-2	3/12/2013	4,200	7.48	150	< 2.0	150	3,360
MW-2	6/27/2013	4,300	7.36	150	< 2.0	150	3,380
MW-2	3/27/2018	3,600	7.66	156.9	< 2.000	156.9	2,870
MW-2	3/21/2019	3,900	7.2	146.8	< 2.000	146.8	2,920
MW-2	10/28/2019	4,300	7.52	150.7	< 2.000	150.7	3,110
MW-2	9/17/2020	4,000	7.67	149.2	< 2.000	149.2	3,160
MW-2	8/17/2021	3,800	7.40	152.5	< 2.000	152.5	2,920
MW-2	3/21/2022	3,600	7.83	152.7	< 2.000	152.7	2,840
MW-2	8/4/2022	4,200	7.69	150.4	< 2.000	150.4	3,530
MW-2	11/29/2023	4,700	7.37	144.5	< 2.000	144.5	3,350
MW-2	4/30/2024	---	---	---	---	---	2,800
MW-2	9/24/2024	---	---	---	---	---	2,600
MW-3	9/19/2002	---	---	---	---	---	1,700
MW-3	11/3/2004	---	---	---	---	---	1,545
MW-3	3/17/2012	1,800	7.43	180	< 2.0	180	1,590
MW-3	6/18/2012	1,900	7.55	180	< 2.0	180	1,590
MW-3	9/12/2012	1,900	---	180	< 2.0	180	1,580
MW-3	12/6/2012	1,800	7.60	180	< 2.0	180	1,600
MW-3	3/12/2013	1,900	7.70	190	< 2.0	190	1,620
MW-3	6/27/2013	2,000	7.61	190	< 2.0	190	1,630
MW-3	3/27/2018	1,900	7.86	180.8	< 2.000	180.8	1,620
MW-3	3/21/2019	1,900	7.35	175.8	< 2.000	175.8	1,610
MW-3	10/28/2019	1,900	7.73	182.6	< 2.000	182.6	1,590
MW-3	9/17/2020	1,900	7.69	177.7	< 2.000	177.7	1,600
MW-3	8/17/2021	1,900	7.53	176.2	< 2.000	176.2	1,590
MW-3	3/21/2022	1,900	7.85	183	< 2.000	183	1,630
MW-3	8/4/2022	1,900	7.88	195.5	< 2.000	195.5	1,670
MW-3	11/29/2023	1,900	7.68	194.8	< 2.000	194.8	1,610

CUMULATIVE GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS LATTION PIT EDDY COUNTY, NEW MEXICO AP-23 All Values Presented in Parts Per Million (mg/L)							
SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO ₃)	Carbonate (As CaCO ₃)	Total Alkalinity (as CaCO ₃)	
MW-3	4/30/2024	---	---	---	---	---	1,700
MW-4	9/19/2002	---	---	---	---	---	5,350
MW-4	11/3/2004	---	---	---	---	---	5,650
MW-4	3/17/2012	5,400	7.16	160	< 2.0	160	4,470
MW-4	6/18/2012	5,500	7.27	160	< 2.0	160	4,880
MW-4	9/12/2012	5,800	---	160	< 2.0	160	4,370
MW-4	12/6/2012	5,700	7.26	160	< 2.0	160	4,550
MW-4	3/12/2013	5,600	7.46	160	< 2.0	160	4,450
MW-4	6/27/2013	5,800	7.36	160	< 2.0	160	4,340
MW-4	3/27/2018	5,400	7.66	146.7	< 2.000	146.7	4,360
MW-4	3/21/2019	5,400	7.16	144.7	< 2.000	144.7	4,170
MW-4	10/28/2019	5,500	7.46	147.6	< 2.000	147.6	4,200
MW-4	9/17/2020	5,300	7.68	141.6	< 2.000	141.6	4,310
MW-4	8/17/2021	5,500	7.27	148.2	< 2.000	148.2	4,200
MW-4	3/21/2022	5,400	7.74	142.7	< 2.000	142.7	4,280
MW-4	8/4/2022	5,400	7.54	140	< 2.000	140	4,640
MW-4	11/29/2023	5,200	7.55	157.5	< 2.000	157.5	3,950
MW-4	4/30/2024	---	---	---	---	---	4,300
MW-4	9/24/2024	---	---	---	---	---	4,200
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)							
A. Human Health Standards							
B. Other Standards for Domestic Water Supply							
C. Standards for Irrigation Use							
Notes: 1. Exceedances of the listed closure criteria are highlighted in bold, red type.							

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

Action 435296

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 435296
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
jburdine	Proposed workplan schedule and reporting for Lattion Pit, Incident # nAUTOFAB000337 approved. Proceed with installation of monitoring wells and sampling as proposed. Send in reporting of completed site activities and summary of all monitoring well installation as well as initial sampling as a standalone report to OCD as proposed.	6/20/2025