District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2305346278
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *nAPP2305346278*
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 33.26870 Longitude -103.52626
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Wynona BMW State #1	Site Type Battery
Date Release Discovered 02/21/2023	API# *(if applicable)* 30-025-37013

Unit Letter	Section	Township	Range	County
A	20	12S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* Medlin)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☑ Condensate	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Historical impacts were discovered during the decommission of the battery. An environmental consultant was retained to perform site assessment and oversee onsite remedial activities. On 2/21/23, the consultant suggested based on the impact footprint and concentrations that a C-141 be submitted for unknown historical impacts to maintain compliance with NMAC 19.15.29.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305346278
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☑ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle
Title: Rep Safety & Environmental Sr

Signature: Chase Settle
Date: 02/22/2023

email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon
Date: 02/22/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 189347
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	2/22/2023

Incident ID	nAPP2305346278
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	73 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305346278
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr

Signature: Amber Griffin Date: 5/22/2023

email: amber_griffin@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 05/23/2023

Incident ID	nAPP2305346278
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr

Signature: Amber Griffin Date: 5/22/2023

email: amber_griffin@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 05/23/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velez Date: 01/18/2024

ENSOLUM

May 22, 2023

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Remediation Work Plan
Wynona BMW State #1
Incident Number nAPP2305346278
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of EOG Resources, Inc. (EOG), has prepared this *Remediation Work Plan (Work Plan)* to document assessment, initial remediation, and soil sampling activities performed at the Wynona BMW State #1 former production well pad (Site, shown on Figure 1). The purpose of these activities were to assess for the presence or absence of impacts to soil following the discovery of a historical release of petroleum hydrocarbons. Based on field observations and laboratory analytical results, EOG is submitting this *Work Plan* describing Site assessment and excavation activities that have occurred, as well as recommendations for additional excavation activities for Incident Number nAPP2305346278.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 20, Township 12 South, Range 34 East, in Lea County, New Mexico (33.26870°, -103.52626°) and is associated with oil and gas exploration and production operations on Private land owned by Mr. Jeff Medlin. On February 21, 2023, EOG submitted a Release Notification Form C-141 (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) following the discovery of historical petroleum hydrocarbon impacts during the decommissioning of the Site tank battery. The release was assigned NMOCD Incident Number nAPP2305346278.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater is estimated to be greater than 50 feet below ground surface (bgs) based on a soil boring drilled at the Site for determination of regional groundwater depth. On April 27, 2023, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE) was completed at the Site location utilizing a truck-mounted air rotary drill rig. Soil boring BH02 (NMOSE Permit L-15458) was drilled to a depth of 78 feet below ground surface (bgs). During drilling, a field geologist logged and described soils continuously. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period, groundwater was measured at 73 feet bgs. The borehole was properly abandoned with grout from the bottom up using a tremmie pipe. The Well Log is included in Appendix A, with the location of BH02 presented on Figure 2.

The closest continuously flowing or significant watercourse to the Site is Eightmile Draw, a dry wash located approximately 5.1 miles northeast of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low karst designation area). Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

In addition, and in accordance with 19.15.29 NMAC and the NMOCD's *Procedures for Implementation of the Spill Rule*, the reclamation requirements of 600 mg/kg chloride, 10 mg/kg benzene, 50 mg/kg combined BTEX, and 100 mg/kg TPH are used for areas being reclaimed in the top 4 feet of the subsurface.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between January 10 and April 27, 2023, delineation activities were conducted to evaluate the historical impacts at the Site. One hand auger boring (BH01) and five delineation potholes (PH01 through PH05) were advanced within and around the former tank battery area to assess the lateral and vertical extent of impacts. Discrete delineation soil samples were collected at depths ranging from the ground surface to 14 feet bgs. In addition, soil samples were field screened and collected for laboratory analysis at depths of 15 feet to 25 feet bgs during the advancement of boring BH02. Delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations from the boreholes and potholes were documented on lithologic/soil sampling logs and are included as Appendix B. Delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation collected during the Site visits are presented in Appendix C.

Soil samples for laboratory analysis were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilabrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation soil samples collected from BH01/PH01 (advanced in the same location) and PH03 contained TPH and/or BTEX concentrations exceeding the Site Closure

Criteria. All other delineation soil samples collected around the release extent were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1, with complete laboratory analytical reports included as Appendix D. Due to elevated TPH and BTEX concentrations, excavation activities were warranted.

EXCAVATION ACTIVITIES

Between May 8 and 11, 2023, Ensolum personnel oversaw excavation activities to remove petroleum hydrocarbon impacted soil. Soil was excavated from the Site to the lateral extents presented on Figure 3. Excavation activities were performed by use of heavy equipment to a maximum vertical depth of 14 feet bgs. To direct excavation activities, Ensolum personnel field screened soil as the excavation progressed in the manner described above.

Following removal of soil, Ensolum personnel collected 5-point composite soil samples, representing up to 200 square feet, from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS06 were collected from the floor of the excavation at depths ranging from 4 feet to 14 feet bgs. Sidewall areas were divided by depth below ground surface in order to compare results to the appropriate Closure Criteria/reclamation requirements. Sidewall samples SW01, SW03, SW05, and SW07 were collected from ground surface to 4 feet bgs and compared to the reclamation requirements. Sidewall samples SW02, SW04, SW06, and SW08 were collected from depths greater than 4 feet bgs and compared to the Site Closure Criteria. The excavation soil samples were field screened, handled, and analyzed following the same procedures as described above for delineation. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for all excavation floor and sidewall samples, with the exception of FS02, indicated COC concentrations were compliant with the applicable Closure Criteria and reclamation requirements. Excavation floor sample area FS02, collected at depths ranging from 6 to 7 feet bgs, contained concentrations of TPH and BTEX exceeding the Site Closure Criteria. Laboratory analytical results are summarized in Table 1, with complete laboratory analytical reports included in Appendix D. Sampling notifications provided to the NMOCD are attached as Appendix E. At this time, the current excavation extent measures approximately 1,147 square feet. After completion of confirmation sampling, the excavation area was secured with fencing.

PROPOSED REMEDIATION WORK PLAN

Site assessment, delineation, and excavation activities were conducted at the Site to address the historical petroleum hydrocarbon impacts discovered on February 21, 2023. Laboratory analytical results for all excavation soil confirmation samples, except FS02, indicate all COC concentrations are compliant with NMOCD Closure Criteria and reclamation requirements. Based on laboratory analytical results for excavation floor sample FS02, removal of additional soil from this sampling area is warranted. EOG and Ensolum recommend additional soil be removed from this area and resampled. An estimated 50 cubic yards of additional soil will be removed to complete Site remediation activities. Once COC concentrations are compliant with Closure Criteria, the excavation will be backfilled and recontoured to match pre-existing conditions. EOG will complete the excavation and soil sampling activities and submit a Closure Report within 90 days of the date of NMOCD's approval of this *Work Plan*.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Meredith Roberts
Field Geologist

Daniel R. Moir, PG
Senior Managing Geologist

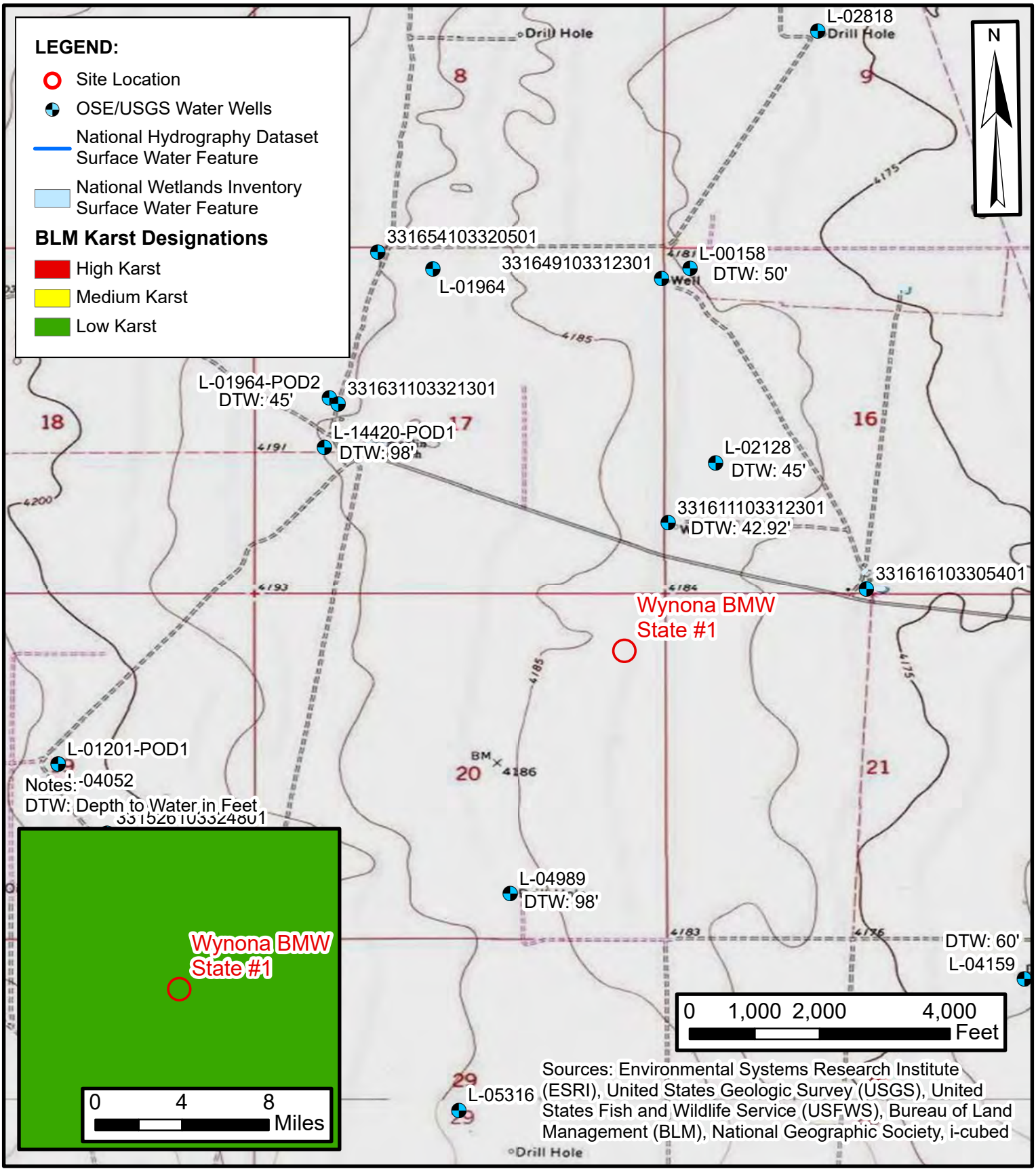
cc: Chase Settle, EOG
Amber Griffin, EOG

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications

ENSOLUM

FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Wynona BMW State #1
EOG Resources, Inc.
Unit A, Sec 20, T12S, R34E
Lea County, New Mexico

FIGURE
1

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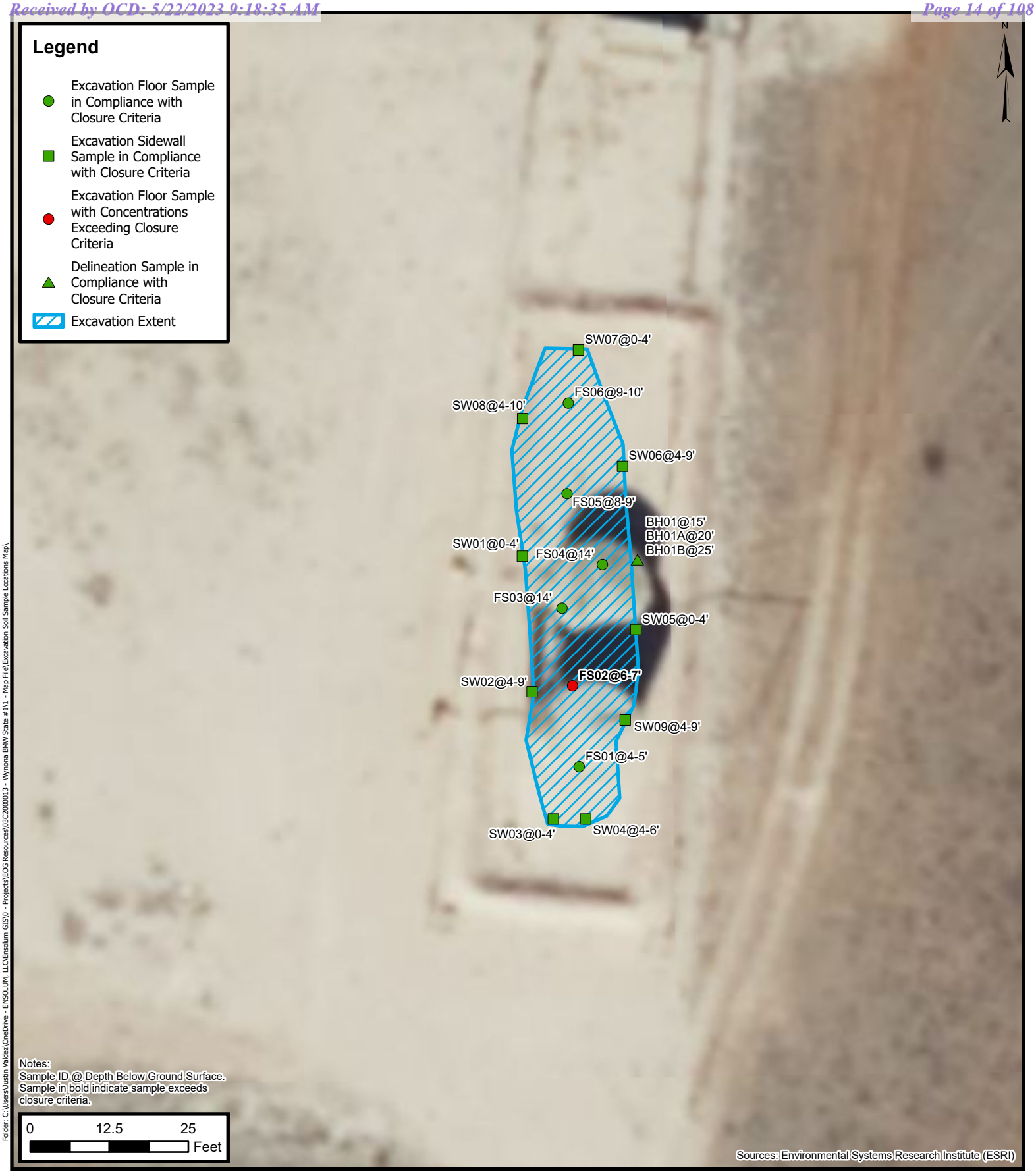
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

Wynona BMW State #1
EOG Resources, Inc.
Unit A, Sec 20, T12S, R34E
Lea County, New Mexico

FIGURE
2



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\EOG Resources\03C2000013 - Wynona BMW State #1\1 - Map File\Excavation Soil Sample Locations Map\

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Excavation Soil Sample Locations

Wynona BMW State #1
EOG Resources, Inc.
Unit A, Sec 20, T12S, R34E
Lea County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Wynona BMW State #1
EOG Resources, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
~~BH01~~	~~01/10/2023~~	~~0 - 0.25~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~49.5~~	~~<10.0~~	~~49.5~~	~~49.5~~	~~16.0~~
~~BH01A~~	~~01/10/2023~~	~~1~~	~~<0.050~~	~~<0.300~~	~~22.6~~	~~218~~	~~<10.0~~	~~**241**~~	~~**241**~~	~~32.0~~
~~BH01B~~	~~01/20/2023~~	~~2~~	~~<0.050~~	~~4.35~~	~~1,050~~	~~2,060~~	~~16.6~~	~~**3,110**~~	~~**4,153**~~	~~48.0~~
~~BH01C~~	~~01/20/2023~~	~~3~~	~~<0.500~~	~~**55.3**~~	~~3,420~~	~~5,200~~	~~40.3~~	~~**8,620**~~	~~**8,660**~~	~~32.0~~
~~BH01D~~	~~01/20/2023~~	~~4~~	~~<0.500~~	~~**66.7**~~	~~2,930~~	~~3,280~~	~~20.0~~	~~**6,210**~~	~~**6,230**~~	~~16.0~~
BH02@15'	04/27/2023	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH02A@20'	04/27/2023	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH02B@25'	04/27/2023	25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH01	02/06/2023	8	<0.050	8.9	351	262	<10.0	613	613	48.0
PH01A	02/06/2023	14	<0.050	<0.300	<10.0	10.4	<10.0	10.4	10.4	32.0
PH02	02/06/2023	8	<0.050	12.2	249	168	<10.0	417	417	16.0
PH02A	02/06/2023	12	<0.050	3.72	119	183	<10.0	302	302	16.0
~~PH03~~	~~02/06/2023~~	~~8~~	~~<0.050~~	~~23.4~~	~~901~~	~~243~~	~~<10.0~~	~~**1,144**~~	~~1,144~~	~~208~~
PH03A	02/06/2023	12	<0.050	11.2	371	139	<10.0	510	510	32.0
PH04	02/07/2023	6	<0.050	0.988	74.3	105	<10.0	179	179	32.0
PH04A	02/07/2023	12	<0.050	<0.300	<10.0	19.3	<10.0	19	19	32.0
PH05	02/07/2023	6	<0.050	<0.300	<10.0	64.9	<10.0	64.9	64.9	16.0
PH05A	02/07/2023	10	<0.050	0.443	47.6	88.6	<10.0	136	136	48.0
Excavation Soil Samples										
FS01	05/08/2023	4 - 5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02	05/09/2023	6 - 7	<1.00	**50.1**	2,910	5,320	56.3	**5,376**	**8,286**	80.0
FS03	05/11/2023	14	<0.050	3.38	64.1	68.6	<10.0	132.7	132.7	32.0
FS04	05/11/2023	14	<0.050	1.76	46.1	45.9	<10.0	92	92	32.0
FS05	05/09/2023	8 - 9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS06	05/09/2023	9 - 10	<0.050	<0.300	<10.0	16.1	<10.0	16.1	16.1	128
SW01	05/09/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW02	05/09/2023	4 - 9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW03	05/09/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	05/09/2023	4 - 6	<0.050	0.3	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	05/10/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW06	05/10/2023	4 - 9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW07	05/10/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Wynona BMW State #1
EOG Resources, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10,000**
SW08	05/09/2023	4 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW09	05/11/2023	4 - 9	<0.050	<0.300	<10.0	38.1	<10.0	38.1	38.1	32.0

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
~~Grey~~ text indicates soil sample removed during excavation activities

ENSOLUM

APPENDIX A

Referenced Well Records

ENSOLUM

Sample Name: BH02	Date: 04/27/2023	
Site Name: Wynona BMW State #1		
Incident Number: nAPP2305346278		
Job Number: 03C2000013		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR/MO	Method: Air Rotary Drill
Coordinates: 33.268771, -103.526259	Hole Diameter: NA	Total Depth: 78'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-5' CALICHE, dark brown w trace silt, medium grained, poorly sorted, no stain/odor, dry.
D	212.8	7.5	N					
D	<173.6	1.2	N			5		5-12.5' CALICHE, medium brown, poorly sorted, medium to coarse grained, no stain/no odor, dry.
D	<173.6	54.9	N					
D	<173.6	175.4	N			10		
D	<173.6	13.7	N					12.5-17.5' CALICHE, white to light brown, coarse grained, poorly sorted, no stain/odor, dry.
D	<173.6	7.5	N	BH02	15	15		
D	<173.6	13.9	N					17.5-22.5' CALICHE, white to light brown, medium grained with gravel, poorly sorted, no stain, no odor, dry.
D	<173.6	58.7	N	BH02A	20	20		
M	<173.6	4.1	N					22.5-27.5' CALICHE/SAND mix, medium brown to red, medium grained, poorly sorted, no stain, no odor, dry.
M	<173.6	8.2	N	BH02B	25	25		
M	<173.6	5.9	N				SP	27.5-30' SAND, medium brown/red, medium to fine grained, poorly sorted, moist.
M	<173.6	7.4	N	BH02C (hold)	30	30		
M						40	SP-SM	40-50' SAND with trace silt, medium brown/red, medium to fine grained (primarily fine), poorly sorted, moist.
M						50		50-60' SAND with trace silt, medium brown, poorly sorted, medium grained, moist to wet.
W						60		60-70' SAND with trace silt, medium/ dark brown, medium grained, poorly sorted, wet.
								Drillers reported hitting water at ~60' bgs.
W						70		70-78' SAND with trace silt, medium brown, poorly sorted, primarily fine grained, wet.
						TD		Total Depth @ 78' bgs
								Drilled to depth of 78' bgs, casing set @ 76'. *Depth to water measurement @ 73' bgs.*

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 745535
File Nbr: L 15458

Apr. 10, 2023

STUART HYDE
ENSOLUM LLC
776 E 2ND AVE
DURANGO, CO 81301

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.

* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.

* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.

* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Rodolfo Chavez
(575)622-6521

Enclosure

explore

File No. L-15458 POD1

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐	Pollution Control And/Or Recovery	☐	Ground Source Heat Pump	
☐ Exploratory Well*(Pump test)	☐	Construction Site/Public Works Dewatering	☐	Other(Describe):	
☒ Monitoring Well	☐	Mine Dewatering			

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

☒ Temporary Request - Requested Start Date: 4/7/2023 Requested End Date: TBD

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

OSE DIT MAR 31 2023 PM 1:31

1. APPLICANT(S)

Name: EOG Resources, Inc.	Name: Ensolum, LLC
Contact or Agent: Chase Settle — check here if Agent ☐	Contact or Agent: Stuart Hyde — check here if Agent ☒
Mailing Address: 104 S. 4th Street	Mailing Address: 776 E 2nd Ave
City: Artesia	City: Durango
State: NM Zip Code: 88210	State: CO Zip Code: 81301
Phone: 575-748-1471 ☐ Home ☒ Cell Phone (Work):	Phone: 970-903-1607 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): chase_settle@eogresources.com	E-mail (optional): shyde@ensolum.com

FOR OSE INTERNAL USE — Application for Permit, Form WR-07, Rev 07/12/22

File No.: L-15458	Trn. No.: 745535	Receipt No.: 245626
Trans Description (optional):		
Sub-Basin: L	PCW/LOG Due Date: 4/10/24	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
MW01 L-15458 POD1	-103.526271	33.268691	Unit A, S20, T12S, R34E, Lea County

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ■ No **If yes, how many** _____

Other description relating well to common landmarks, streets, or other:
Located on P&A well pad for the Wynona BMW State #1

USE OIL MAR 31 2023 PM 1:31

Well is on land owned by: Medlin

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ■ Yes ☐ No
If yes, how many 1

Approximate depth of well (feet): 105	Outside diameter of well casing (inches): 2 inches
Driller Name: HCI Drilling	Driller License Number: 1731

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One soil boring to be completed at the site to assess subsurface soil and presence of groundwater. Temporary 2-inch PVC well screen will be placed in open borehole to determine depth to water at the site. The borehole will be abandoned within 3 days of completion. The borehole location is depicted on the attached figure.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07 Version 07/12/22

File No.: L-15458 POD1	Trn No.: 745535

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
Is proposed well a future public water supply well? ☐ Yes ☐ NO If Yes, an application must be filed with NMED-DWB, concurrently. ☐ Include a description of the requested pump test if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring ☒ The reason and duration of the monitoring is required.		**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Chase Settle
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief. OSE OFF MAR 31 2023 PM1:31

Chase Settle Digitally signed by Chase Settle Date: 2023.03.27 09:07:02 -06'00'
Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☑ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 10th day of April 20 23, for the State Engineer.

Mike A. Hamman, P.E., State Engineer

By: K. Parekh
Signature

Kashyap Parekh
Print

Title: Water Resource Manager I
Print

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 07/12/22

File No.: L-15458 POD1 Trn No.: 746535

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

17-1B Depth of the well shall not exceed the thickness of the Ogallala formation.

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: L 15458 POD1

File Number: L 15458
Trn Number: 745535

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion L 15458 POD1 must be completed and the Well Log filed on or before 04/09/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 03/31/2023	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 10 day of Apr A.D., 2023

Mike A. Hamman, P.E., State Engineer

By: K-Parekh
KASHYAP PAREKH

Trn Desc: L 15458 POD1

File Number: L 15458
Trn Number: 745535

From: Keith Kistner
To: Chase Settle; Amber Griffin
Subject: Wynona BMW State #1 - Depth to Groundwater Boring Permission
Date: Thursday, March 30, 2023 9:04:57 AM

From: Lisa Medlin <lisafmedlin@yahoo.com>
Sent: Wednesday, March 29, 2023 5:46 PM
To: Keith Kistner <Keith_Kistner@eogresources.com>
Subject: Re: Wynona BMW State #1 - Depth to Groundwater Boring Permission

You have my permission. Jeff Medlin

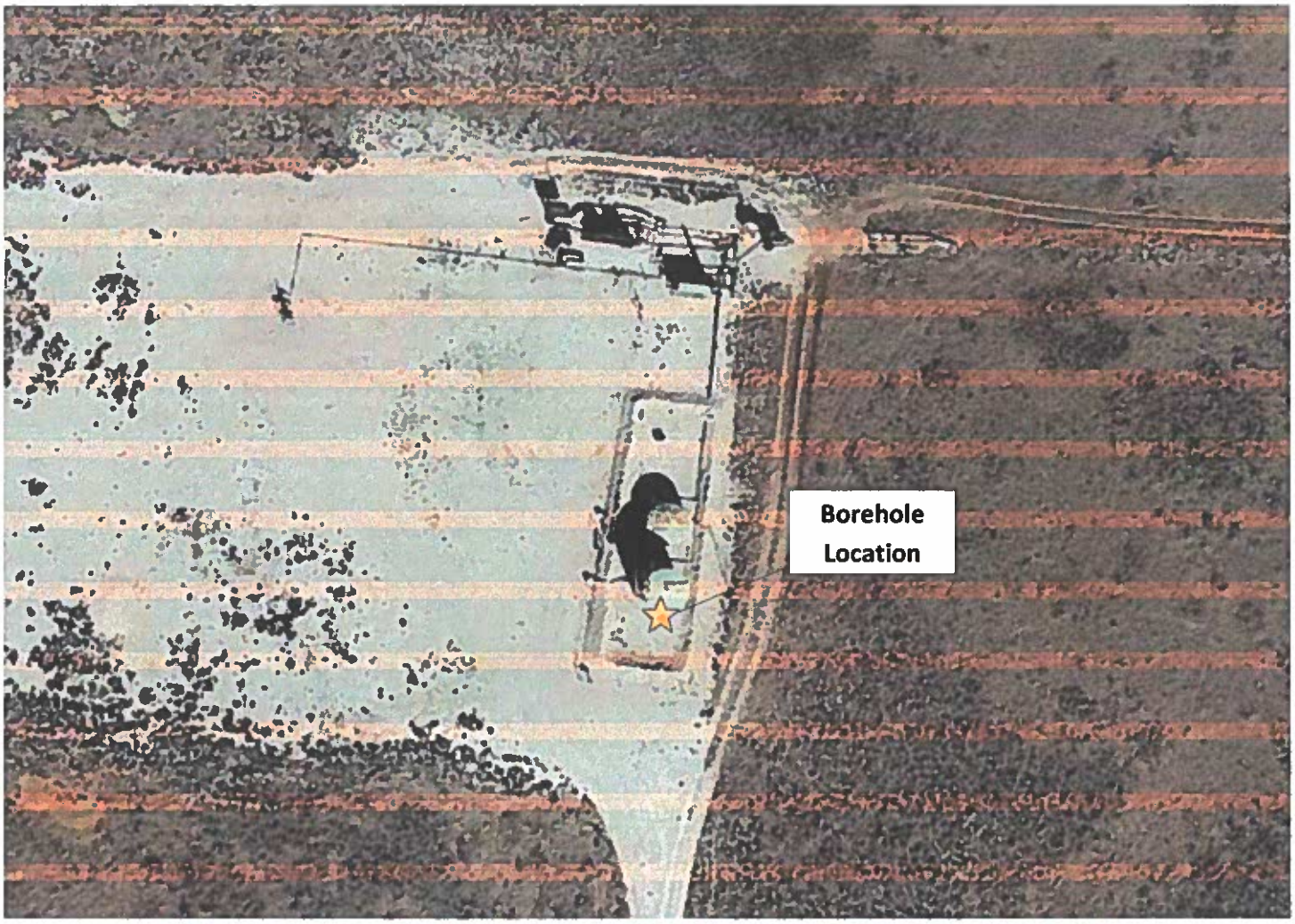
Sent from Yahoo Mail for iPhone

On Wednesday, March 29, 2023, 12:32 PM, Keith Kistner <Keith_Kistner@eogresources.com> wrote:
Mr. Medlin,

This email is to confirm in writing the approval provided by Medlin Ranch to EOG Resources, Inc. to install an exploratory depth to groundwater boring at the Wynona BMW State #1 well pad. As we discussed on the phone, the boring will be drilled to a Minimum 55' to deepest of 105', a temporary 2 inch monitor well will be installed, and the boring allowed to equilibrate for 72 hours before gauging. Once gauging is complete, the boring/temporary well will be plugged. Please respond with a confirmation email letting EOG know that we have your permission.

Keith Kistner
Surface Landman
EOG Resources, Inc.
104 S. Fourth Street
Artesia, New Mexico 88210
(830) 327-2830
Keith_Kistner@eogresources.com

Wynona BMW State #1



OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ROSWELL OFFICE

OFFICIAL RECEIPT NUMBER: 2 - 45626 DATE: 3/31/23 FILE NO.: MW

TOTAL: 5.00 RECEIVED: Five and 00/100 DOLLARS CHECK NO.: 3896 CASH: _____

PAYOR: EOG Resources ADDRESS: 104 S. 4th St CITY: Artesia STATE: NM

ZIP: 88210 RECEIVED BY: _____

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

___	1. Change of Ownership of Water Right	$ 2.00
___	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Additional Point of Diversion Non 72-12-1 Per Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
1	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00
___	3. Application to Amend Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 0.25¢ $_____

___ Map(s) @ $3.00 $_____

E. Certification $_____

F. Other $_____

G. Comments:

Walkin

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

April 10, 2023

EOG Resources Inc.
104 S. 4th Street
Artesia, NM 88210

RE: Well Plugging Plan of Operations for well No. L-15458-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php. **Failure to submit to the Well Plugging Plan of Operations in the correct form will result in delay of issuance of the permit.**

Sincerely,

K. Parekh

Kashyap Parekh
Water Resources Manager I

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. EOG Resources Inc. (WD-1731) will perform the plugging.

Permittee: EOG Resources Inc.
NMOSE Permit Number: L-15458-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
L-15458-POD1	2.0 (8.0 inch borehole)	105.0	100.0	33° 16' 7.29"	103° 31' 34.56''

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 275.0 gallons. The total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 105 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 26.10 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for plugging the well.

5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 4. and 5. of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing the plugging of the soil boring will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 10th day of April 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: TBD L-15458-P001

Name of well owner: EOG Resources, Inc.

Mailing address: 104 S. 4th Street County:

City: Artesia State: NM Zip code: 88210

Phone number: 575-748-1471 E-mail: chase_settle@eogresources.com

OSE DIT MAR 31 2023 PM 1:31

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: HCI Drilling

New Mexico Well Driller License No.: 1731 Expiration Date: 2/28/2024

IV. WELL INFORMATION: ☐ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 33 deg, 16 min, 7.29 sec
Longitude: 103 deg, 31 min, 34.56 sec, NAD 83

2) Reason(s) for plugging well(s):

Monitoring well to be plugged when no longer needed. Dry borehole will be plugged within 3 days of completion if encountered

3) Was well used for any type of monitoring program? NO If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NA If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: NA feet below land surface / feet above land surface (circle one)

6) Depth of the well: 105 feet

7) Inside diameter of innermost casing: 2 inches.

8) Casing material: Temporary SCH 40 PVC

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: NA

☐ a well screen or perforated pipe, state the screened interval(s): NA

10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA

11) Was the well built with surface casing? no If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Temporary 2 inch well will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged from 0 to 10 feet bgs with hydrated bentonite. If groundwater is encountered, borehole will be plugged, tremie pipe from the bottom upwards to a slurry of Type I/II neat cement.

2) Will well head be cut-off below land surface after plugging? Yes

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 275 gallons (8 inch borehole)

4) Type of Cement proposed: Type I/II Neat Cement

5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: ____ batch-mixed and delivered to the site

X mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

NA

8) Additional notes and calculations:

NA

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

NA

VIII. SIGNATURE:

I, Chase Settle, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Chase Settle Digitally signed by Chase Settle Date: 2023.03.27 09:08:09 -06'00'

Signature of Applicant Date

IX. ACTION OF THE STATE ENGINEER:

OSE DIT MAR 31 2023 PM 1:31

This Well Plugging Plan of Operations is:

X Approved subject to the attached conditions.

_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 10th day of April, 2023

Mike A. Hamman P.E., New Mexico State Engineer

By: K. Parekh

KASHYAP PAREKH

W.R.M.I

GREAT SEAL OF THE STATE OF NEW MEXICO 1912

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	NA	NA	0
Bottom of proposed interval of grout placement (ft bgl)	NA	NA	105
Theoretical volume of grout required per interval (gallons)	NA	NA	275
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	NA	NA	<6.0
Mixed on-site or batch-mixed and delivered?	NA	NA	onsite
Grout additive 1 requested	NA	NA	
Additive 1 percent by dry weight relative to cement	NA	NA	NA
Grout additive 2 requested	NA	NA	NA
Additive 2 percent by dry weight relative to cement	NA	NA	NA

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	NA	NA	0
Bottom of proposed sealant of grout placement (ft bgl)	NA	NA	10
Theoretical volume of sealant required per interval (gallons)	NA	NA	26
Proposed abandonment sealant (manufacturer and trade name)	NA	NA	Baroid Hold Plug

ENSOLUM

APPENDIX B

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01/PH01	Date: 02/06/2023
	Site Name: Wynona BMW State #1	
	Incident Number: nAPP2305346278	
	Job Number: 03C2000013	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR/CW	Method: HA, Trackhoe
Coordinates: 32.26866, -103.52628	Hole Diameter: NA	Total Depth: 14'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<162.4	12	Y	BH01	0.2	0	CCHE	0-6' CALICHE, dark brown, poorly sorted, sub- rounded grains, stained with odor, dry.
D	<162.4	277.2	Y	BH01A	1	1		0-4' Advanced by Hand Auger
				BH01B	2	2		
				BH01C	3	3		
				BH01D	4	4		
D	<168	14.5	N			5		4-14' Advanced by Trackhoe
D	<168	178.6	N			6	CCHE	6-14' CALICHE, dark brown, poorly sorted, sub-rounded grains, no stain, strong odor, dry.
D	<168	651	N	PH01	8	8		
D	<168	496	N			10		
D	<168	370	N			12		
D	<168	85.3	N	PH01A	14	14		
						TD		Total Depth @ 14' bgs

ENSOLUM

Sample Name: BH02	Date: 04/27/2023	
Site Name: Wynona BMW State #1		
Incident Number: nAPP2305346278		
Job Number: 03C2000013		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR/MO	Method: Air Rotary Drill
Coordinates: 33.268771, -103.526259	Hole Diameter: NA	Total Depth: 78'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-5' CALICHE, dark brown w trace silt, medium grained, poorly sorted, no stain/odor, dry.
D	212.8	7.5	N					
D	<173.6	1.2	N			5		5-12.5' CALICHE, medium brown, poorly sorted, medium to coarse grained, no stain/no odor, dry.
D	<173.6	54.9	N					
D	<173.6	175.4	N			10		
D	<173.6	13.7	N					12.5-17.5' CALICHE, white to light brown, coarse grained, poorly sorted, no stain/odor, dry.
D	<173.6	7.5	N	BH02	15	15		
D	<173.6	13.9	N					17.5-22.5' CALICHE, white to light brown, medium grained with gravel, poorly sorted, no stain, no odor, dry.
D	<173.6	58.7	N	BH02A	20	20		
M	<173.6	4.1	N					22.5-27.5' CALICHE/SAND mix, medium brown to red, medium grained, poorly sorted, no stain, no odor, dry.
M	<173.6	8.2	N	BH02B	25	25		
M	<173.6	5.9	N				SP	27.5-30' SAND, medium brown/red, medium to fine grained, poorly sorted, moist.
M	<173.6	7.4	N	BH02C (hold)	30	30		
M						40	SP-SM	40-50' SAND with trace silt, medium brown/red, medium to fine grained (primarily fine), poorly sorted, moist.
M						50		50-60' SAND with trace silt, medium brown, poorly sorted, medium grained, moist to wet.
W						60		60-70' SAND with trace silt, medium/ dark brown, medium grained, poorly sorted, wet.
								Drillers reported hitting water at ~60' bgs.
W						70		70-78' SAND with trace silt, medium brown, poorly sorted, primarily fine grained, wet.
						TD		Total Depth @ 78' bgs
								Drilled to depth of 78' bgs, casing set @ 76'. *Depth to water measurement @ 73' bgs.*

ENSOLUM

Sample Name: PH03	Date: 02/06/2023
Site Name: Wynona BMW State #1	
Incident Number: nAPP2305346278	
Job Number: 03C2000013	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CW / Method: Trackhoe
Coordinates: 33.26881, -103.52628	Hole Diameter: NA / Total Depth: 12'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-2' SAND, dark brown with caliche, poorly sorted, sub-rounded grains, stain and faint odor, dry.
D	<168	0.1	Y			1		
D	<168	0.0	N			2	SP	2-4' SAND, dark brown with caliche, poorly sorted, sub-rounded grains, no stain, no odor, dry.
D	<168	2.5	N			4	CCHE	4-12' CALICHE, medium to dark brown, poorly sorted, sub-rounded grains, odor, no stain, dry.
D	<168	162	N			6		
D	<168	804	N	PH03	8	8		
D	<168	471	N			10		
D	<168	471	N	PH03A	12	12		
						TD		Total Depth @ 12' bgs.

ENSOLUM

	Sample Name: PH03	Date: 02/06/2023
	Site Name: Wynona BMW State #1	
	Incident Number: nAPP2305346278	
	Job Number: 03C2000013	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CW	Method: Trackhoe
Coordinates: 33.26881, -103.52628	Hole Diameter: NA	Total Depth: 12'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-2' SAND, dark brown with caliche, poorly sorted, sub-rounded grains, stain and faint odor, dry.
D	246	24.1	Y			1		
D	526	0.0	N			2	SP	2-4' SAND, dark brown with caliche, poorly sorted, sub-rounded grains, no stain, no odor, dry.
D	<168	1050	N			4	CCHE	4-12' CALICHE, medium to dark brown, poorly sorted, sub-rounded grains, odor, no stain, dry.
D	<168	850	N			6		
D	<168	1723	N	PH03	8	8		
D	<168	1027	N			10		
D	<168	921	N	PH03A	12	12		
						TD		Total Depth @ 12' bgs.

ENSOLUM

Sample Name: PH04	Date: 02/07/2023	
Site Name: Wynona BMW State #1		
Incident Number: nAPP2305346278		
Job Number: 03C2000013		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Trackhoe
Coordinates: 33.26871, -103.52620	Hole Diameter: NA	Total Depth: 12'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4' SAND, dark brown with caliche, poorly sorted, sub-rounded grains, no stain/no odor, dry.
						1		
						2		
						4	CCHE	4-12' CALICHE, medium to dark brown, poorly sorted, sub-rounded grains, no odor, no stain, dry.
				PH04	6	6		
						8		
						10		
				PH04A	12	12		
						TD		Total Depth @ 12' bgs.

ENSOLUM

Sample Name: PH05	Date: 02/07/2023	
Site Name: Wynona BMW State #1		
Incident Number: nAPP2305346278		
Job Number: 03C2000013		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CB	Method: Trackhoe
Coordinates: 33.26856, -103.52629	Hole Diameter: NA	Total Depth: 12'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4' SAND, dark brown with caliche, poorly sorted, sub-rounded grains, no stain/no odor, dry.
						1		
						2		
						4	CCHE	4-12' CALICHE, medium to dark brown, poorly sorted, sub-rounded grains, no odor, no stain, dry.
				PH05	6	6		
						8		
						10		
				PH05A	12	12		
						TD		Total Depth @ 12' bgs.

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
EOG Resources, Inc.
Wynona BMW State #1
NAPP2305346278

Photograph 1 Date: 01/04/2023
Description: View of bottom of tank.
View: North

Photograph 2 Date: 01/10/2023
Description: Former location of battery tanks.
View: West

Photograph 3 Date: 04/27/2023
Description: Depth to water drilling activities.
View: Northeast

Photograph 4 Date: 05/11/2023
Description: Current excavation extent.
View: Northwest

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 12, 2023

STUART HYDE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WYNONA BMW STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: BH 01 @ 0-0.25' (H230116-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.07	103	2.00	3.17	
Toluene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	3.17	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	3.40	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	01/11/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	192	95.9	200	8.39	
DRO >C10-C28*	**49.5**	10.0	01/11/2023	ND	179	89.6	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane *82.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: BH 01 A @ 1' (H230116-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.07	103	2.00	3.17	
Toluene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	3.17	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	3.40	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/11/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**22.6**	10.0	01/11/2023	ND	192	95.9	200	8.39	
DRO >C10-C28*	**218**	10.0	01/11/2023	ND	179	89.6	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane *87.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *91.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ensolum, LLC
Project Manager:	Stuart Hyde
Address:	3122 Nat'l Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	970.903.1607 Fax #:
Project #:	03C2000013 Project Owner:
Project Name:	Wynona BMW State #1
Project Location:	33.2689095, -103.526741
Sampler Name:	Meredith Roberts

BILL TO

P.O. #:	
Company:	EOG Resources
Attn:	Chase Settle
Address:	105 S. 4th St.
City:	Artesia
State:	NM Zip: 88210
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	Chlorides	TPH
H230116 1	BH01 @ 0-0.25'	G	1			X					X		1/10/23	1225	X	X	X
2	BH01A @ 1'	G	1			X					X		1/10/23	1230	X	X	X

TPH

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 1-10-23	Received By:	
	Time: 1445		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☑ No Add'l Phone #:

All Results are emailed. Please provide Email address:
tmorrissey@ensolum.com Amber_Griffin@eogresources.com
Shyde@ensolum.com Chase_Settle@eogresources.com

REMARKS:
TEMP BLANK: 0.5c

Delivered By: (Circle One)	Observed Temp. °C 5.3	Sample Condition Cool: ☑ Yes ☐ No	Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) SRC
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.7			

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 24, 2023

STUART HYDE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WYNONA BMW STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/20/23 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	** (See Notes)
Project Number:	03C2000013	Sample Received By:	Tamara Oldaker
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: BH 01 B (H230306-01)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.06	103	2.00	0.0486	
Toluene*	**0.086**	0.050	01/23/2023	ND	2.22	111	2.00	0.122	GC-NC1
Ethylbenzene*	**0.314**	0.050	01/23/2023	ND	2.14	107	2.00	0.398	GC-NC1
Total Xylenes*	**3.95**	0.150	01/23/2023	ND	6.67	111	6.00	0.132	GC-NC1
Total BTEX	**4.35**	0.300	01/23/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *317 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	01/23/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1050**	10.0	01/23/2023	ND	206	103	200	0.253	
DRO >C10-C28*	**2060**	10.0	01/23/2023	ND	219	109	200	1.51	
EXT DRO >C28-C36	**16.6**	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane *457 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	** (See Notes)
Project Number:	03C2000013	Sample Received By:	Tamara Oldaker
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: BH 01 C (H230306-02)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/23/2023	ND	2.06	103	2.00	0.0486	
Toluene*	**1.19**	0.500	01/23/2023	ND	2.22	111	2.00	0.122	GC-NC1
Ethylbenzene*	**2.27**	0.500	01/23/2023	ND	2.14	107	2.00	0.398	GC-NC1
Total Xylenes*	**51.9**	1.50	01/23/2023	ND	6.67	111	6.00	0.132	GC-NC1
Total BTEX	**55.3**	3.00	01/23/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *263 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/23/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3420**	10.0	01/23/2023	ND	206	103	200	0.253	
DRO >C10-C28*	**5200**	10.0	01/23/2023	ND	219	109	200	1.51	
EXT DRO >C28-C36	**40.3**	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane *569 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	** (See Notes)
Project Number:	03C2000013	Sample Received By:	Tamara Oldaker
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: BH 01 D (H230306-03)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/23/2023	ND	2.06	103	2.00	0.0486	
Toluene*	**1.95**	0.500	01/23/2023	ND	2.22	111	2.00	0.122	GC-NC1
Ethylbenzene*	**3.54**	0.500	01/23/2023	ND	2.14	107	2.00	0.398	GC-NC1
Total Xylenes*	**61.2**	1.50	01/23/2023	ND	6.67	111	6.00	0.132	GC-NC1
Total BTEX	**66.7**	3.00	01/23/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *261 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	01/23/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2930**	10.0	01/23/2023	ND	206	103	200	0.253	
DRO >C10-C28*	**3280**	10.0	01/23/2023	ND	219	109	200	1.51	
EXT DRO >C28-C36	**20.0**	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane *385 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ensolum
Project Manager:	Stuart Hyde / Tacoma Morrissey
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	970-903-1607 Fax #:
Project #:	03C20000113 Project Owner: EOG Resources
Project Name:	Wynona BMW
Project Location:	Lea County
Sampler Name:	

BILL TO

P.O. #:	
Company:	EOG Resources
Attn:	Amber Griffin / Chase Settle
Address:	105 S 4th
City:	Artesia
State: NM	Zip: 88210
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	CHL	BTX	TPH
H230306																	
1	BH01B	G				X							1-2023	0950	X	X	X
2	BH01C	G				X							1-2023	0955	X	X	X
3	BH01D	G				X							1-2023	1000	X	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 1-20-23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1203		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time: 1235		

Delivered By: (Circle One)	Observed Temp. °C 12.3	Sample Condition: Cool ☐ Yes ☑ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 11.7			Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 13, 2023

STUART HYDE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WYNONA BMW STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: PH 01 8' (H230566-01)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234	
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802	GC-NC
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378	QM-07, QR-03
Total Xylenes*	**8.93**	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587	GC-NC1, QM-07
Total BTEX	**8.93**	0.300	02/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *289 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	02/10/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**351**	10.0	02/10/2023	ND	196	98.0	200	0.636	
DRO >C10-C28*	**262**	10.0	02/10/2023	ND	183	91.6	200	0.694	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane *125 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: PH 01 14' (H230566-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234	
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587	
Total BTEX	<0.300	0.300	02/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/10/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	196	98.0	200	0.636	
DRO >C10-C28*	**10.4**	10.0	02/10/2023	ND	183	91.6	200	0.694	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane *88.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: PH 02 8' (H230566-03)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234	
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802	GC-NC
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378	GC-NC
Total Xylenes*	**12.2**	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587	GC-NC1
Total BTEX	**12.2**	0.300	02/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *344 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/10/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**249**	10.0	02/10/2023	ND	196	98.0	200	0.636	
DRO >C10-C28*	**168**	10.0	02/10/2023	ND	183	91.6	200	0.694	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: PH 02 12' (H230566-04)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234	
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802	GC-NC
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378	GC-NC
Total Xylenes*	**3.72**	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587	GC-NC1
Total BTEX	**3.72**	0.300	02/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *210 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/10/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**119**	10.0	02/10/2023	ND	196	98.0	200	0.636	
DRO >C10-C28*	**183**	10.0	02/10/2023	ND	183	91.6	200	0.694	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *91.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: PH 03 8' (H230566-05)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	GC-NC
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	**23.4**	0.150	02/11/2023	ND	6.41	107	6.00	3.89	GC-NC1
Total BTEX	**23.4**	0.300	02/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *393 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	02/10/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**901**	10.0	02/10/2023	ND	183	91.6	200	6.32	QM-07
DRO >C10-C28*	**243**	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane *140 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 33.2689095,-103.526741		

Sample ID: PH 03 12' (H230566-06)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	GC-NC, QM-07
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	QM-07
Total Xylenes*	**11.2**	0.150	02/11/2023	ND	6.41	107	6.00	3.89	GC-NC1, QM-07
Total BTEX	**11.2**	0.300	02/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *268 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/10/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**371**	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	**139**	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane *138 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *49.1-148*

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolvm LLC
Project Manager: Stuart Hyde
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 970-903-1607 Fax #:
Project #: 03C200013 Project Owner: EOG
Project Name: Wynona BMW State #1
Project Location:
Sampler Name: Connor Whitman

BILL TO
P.O. #:
Company: EOG
Attn: Chase Settle
Address: 105 S. 4th St.
City: Artesia
State: NM Zip: 88210
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	TPH	Chloride
H230506																		
1	PH01	8'	G	1			X					X		2/6/23	10:20	X	X	X
2	PH01	14'		1			X					X			11:10	X	X	X
3	PH02	8'		1			X					X			2:10	X	X	X
4	PH02	12'		1			X					X			2:40	X	X	X
5	PH03	8'		1			X					X			12:50	X	X	X
6	PH03	12'		1			X					X			1:05	X	X	X
7																		
SR																		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Date: 2/6/23 Time: 5:30pm Received By:
Relinquished By: Date: 2-8-23 Time: 1445 Received By: SRodriguez

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 2.5 Corrected Temp. °C 1.9
Sample Condition: Cool Yes / No; Intact Yes / No
CHECKED BY: (Initials) SR

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
Shyde@Ensolvm.com, cWhitman@Ensolvm.com
REMARKS: Amber_Griffin@EOGresources.com
tmorrissey@Ensolvm.com
Chase_Settle@EOGresources.com
Turnaround Time: Standard ☑ Rush ☐
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No
Observed Temp. °C
Thermometer ID #113
Correction Factor -0.6°C
Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 15, 2023

STUART HYDE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WYNONA BMW STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 04	H230567-01	Soil	07-Feb-23 11:00	08-Feb-23 14:45
PH 04 A	H230567-02	Soil	07-Feb-23 11:30	08-Feb-23 14:45
PH 05	H230567-03	Soil	07-Feb-23 12:00	08-Feb-23 14:45
PH 05 A	H230567-04	Soil	07-Feb-23 12:30	08-Feb-23 14:45

02/15/23 - Client added BTEX and TPH to all samples 02/13/23 (see COC). This is the revised report and will replace the one sent on 02/13/23.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

PH 04

H230567-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3021053	AC	10-Feb-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC
Total Xylenes*	**0.988**		0.150	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC1
Total BTEX	**0.988**		0.300	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			*193 %*	*71.5-134*		*3021328*	JH	*14-Feb-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**74.3**		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	QM-07
DRO >C10-C28*	**105**		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	QM-07
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
Surrogate: 1-Chlorooctane			*82.4 %*	*48.2-134*		*3021330*	MS	*14-Feb-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*75.1 %*	*49.1-148*		*3021330*	MS	*14-Feb-23*	*8015B*	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

PH 04 A

H230567-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	3021053	AC	10-Feb-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*3021328*	JH	*14-Feb-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
DRO >C10-C28*	**19.3**		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
Surrogate: 1-Chlorooctane			*66.7 %*	*48.2-134*		*3021330*	MS	*14-Feb-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*69.2 %*	*49.1-148*		*3021330*	MS	*14-Feb-23*	*8015B*	

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CARDINAL Laboratories

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

PH 05

H230567-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	3021053	AC	10-Feb-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3021328*	JH	*14-Feb-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
DRO >C10-C28*	**64.9**		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
Surrogate: 1-Chlorooctane			*60.2 %*	*48.2-134*		*3021330*	MS	*14-Feb-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*60.3 %*	*49.1-148*		*3021330*	MS	*14-Feb-23*	*8015B*	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

PH 05 A

H230567-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	3021053	AC	10-Feb-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3021328	JH	14-Feb-23	8021B	
Total Xylenes*	**0.443**		0.150	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC1
Total BTEX	**0.443**		0.300	mg/kg	50	3021328	JH	14-Feb-23	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			*157 %*	*71.5-134*		*3021328*	JH	*14-Feb-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**47.6**		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
DRO >C10-C28*	**88.6**		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3021330	MS	14-Feb-23	8015B	
Surrogate: 1-Chlorooctane			*69.1 %*	*48.2-134*		*3021330*	MS	*14-Feb-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*61.8 %*	*49.1-148*		*3021330*	MS	*14-Feb-23*	*8015B*	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3021053 - 1:4 DI Water										
Blank (3021053-BLK1)				Prepared & Analyzed: 10-Feb-23						
Chloride	ND	16.0	mg/kg							
LCS (3021053-BS1)				Prepared & Analyzed: 10-Feb-23						
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (3021053-BSD1)				Prepared & Analyzed: 10-Feb-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.64	20	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3021328 - Volatiles										
Blank (3021328-BLK1)				Prepared: 13-Feb-23 Analyzed: 14-Feb-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0505*		mg/kg	*0.0500*		*101*	*71.5-134*			
LCS (3021328-BS1)				Prepared: 13-Feb-23 Analyzed: 14-Feb-23						
Benzene	2.09	0.050	mg/kg	2.00		105	81.4-118			
Toluene	2.08	0.050	mg/kg	2.00		104	88.7-121			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	86.1-120			
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	88.2-124			
o-Xylene	2.00	0.050	mg/kg	2.00		100	84.9-118			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0500*		mg/kg	*0.0500*		*100*	*71.5-134*			
LCS Dup (3021328-BSD1)				Prepared: 13-Feb-23 Analyzed: 14-Feb-23						
Benzene	1.86	0.050	mg/kg	2.00		93.1	81.4-118	11.8	15.8	
Toluene	1.84	0.050	mg/kg	2.00		91.9	88.7-121	12.3	15.9	
Ethylbenzene	1.79	0.050	mg/kg	2.00		89.6	86.1-120	13.0	16	
m,p-Xylene	3.69	0.100	mg/kg	4.00		92.1	88.2-124	12.0	16.2	
o-Xylene	1.77	0.050	mg/kg	2.00		88.3	84.9-118	12.7	16.7	
Total Xylenes	5.45	0.150	mg/kg	6.00		90.9	87.3-122	12.2	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0494*		mg/kg	*0.0500*		*98.8*	*71.5-134*			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: WYNONA BMW STATE #1 Project Number: 03C2000013 Project Manager: STUART HYDE Fax To:	Reported: 15-Feb-23 13:29

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3021330 - General Prep - Organics										
Blank (3021330-BLK1)				Prepared: 13-Feb-23 Analyzed: 14-Feb-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*38.5*		mg/kg	*50.0*		*76.9*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*41.5*		mg/kg	*50.0*		*83.0*	*49.1-148*			
LCS (3021330-BS1)				Prepared: 13-Feb-23 Analyzed: 14-Feb-23						
GRO C6-C10	176	10.0	mg/kg	200		87.8	78.5-124			
DRO >C10-C28	175	10.0	mg/kg	200		87.3	72.5-126			
Total TPH C6-C28	350	10.0	mg/kg	400		87.6	77.6-123			
Surrogate: 1-Chlorooctane	*44.7*		mg/kg	*50.0*		*89.4*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*49.4*		mg/kg	*50.0*		*98.9*	*49.1-148*			
LCS Dup (3021330-BSD1)				Prepared: 13-Feb-23 Analyzed: 14-Feb-23						
GRO C6-C10	177	10.0	mg/kg	200		88.6	78.5-124	0.999	17.7	
DRO >C10-C28	176	10.0	mg/kg	200		88.1	72.5-126	0.900	21	
Total TPH C6-C28	354	10.0	mg/kg	400		88.4	77.6-123	0.950	18.5	
Surrogate: 1-Chlorooctane	*42.6*		mg/kg	*50.0*		*85.2*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*47.4*		mg/kg	*50.0*		*94.7*	*49.1-148*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ensolum
Project Manager:	Stuart Hyde
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	970-903-1607 Fax #:
Project #:	03C2000013 Project Owner: EOG
Project Name:	Wynona BMC State #1
Project Location:	Lea County
Sampler Name:	CB

BILL TO

P.O. #:	
Company:	EOG Resources
Attn:	Chase Sevile Amber Griffin
Address:	105 S 4th St
City:	Artesia
State:	NM Zip: 88210
Phone #:	
Fax #:	

ANALYSIS REQUEST

CHL; added BTEX *; added TPH

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CHL	BTEX *	TPH
H230567	CB																
1	SS PH04	G	1			X							2-7-23	1100	X	✓	✓
2	PH04A	|	1			X							|	1130	X	|	|
3	PH05	|	1			X							|	1200	X	|	|
4	PH05A	↓	1			X							↓	1230	X	↓	↓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 2-8-23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1445		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: * Customer added analysis. TO 2/13/23
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 2.5	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) SC	Turnaround Time: Standard ☐ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.9			Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 28, 2023

STUART HYDE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WYNONA BMW STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 04/27/23 12:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	04/27/2023	Sampling Date:	04/27/2023
Reported:	04/28/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Tamara Oldaker
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: BH 02 @ 15' (H232074-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	2.14	107	2.00	0.969	
Toluene*	<0.050	0.050	04/28/2023	ND	2.22	111	2.00	0.634	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.72	112	6.00	2.29	
Total BTEX	<0.300	0.300	04/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	04/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	195	97.6	200	11.2	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	191	95.3	200	6.55	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane *83.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	04/27/2023	Sampling Date:	04/27/2023
Reported:	04/28/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Tamara Oldaker
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: BH 02 A @ 20' (H232074-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	2.14	107	2.00	0.969	
Toluene*	<0.050	0.050	04/28/2023	ND	2.22	111	2.00	0.634	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.72	112	6.00	2.29	
Total BTEX	<0.300	0.300	04/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	04/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	195	97.6	200	11.2	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	191	95.3	200	6.55	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane *72.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	04/27/2023	Sampling Date:	04/27/2023
Reported:	04/28/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Tamara Oldaker
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: BH 02 B @ 25' (H232074-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	2.14	107	2.00	0.969	
Toluene*	<0.050	0.050	04/28/2023	ND	2.22	111	2.00	0.634	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.72	112	6.00	2.29	
Total BTEX	<0.300	0.300	04/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	195	97.6	200	11.2	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	191	95.3	200	6.55	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane *79.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ensolum, LLC
Project Manager:	Stuart Hyde
Address:	3122 Nat'l Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	970.903.1607 Fax #:
Project #:	03C2000013 Project Owner:
Project Name:	Wynona BMW State #1
Project Location:	32.2689095, -103.526741
Sampler Name:	Meredith Roberts

BILL TO

P.O. #:	
Company:	EOG Resources
Attn:	Chase Settle
Address:	105 S. 4th St.
City:	Artesia
State:	NM Zip: 88210
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H232074-1	BH02 @ 15'	G	1			X					X		4/27/23	1025	X	X	X
2	BH02A 20'													1030			
3	BH02B 25'													1035			
4	BH02C 30'													1040			

Please HOLD 30' sample
MR

Relinquished By:	Date: 4/27/23	Received By:	
	Time: 1130		
Relinquished By:	Date: 4/27/23	Received By:	
	Time: 12:51		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:
tmorrissey@ensolum.com Chase_Settle@eogresources.com
Shyde@ensolum.com Amber_Griffin@eogresources

REMARKS: Incident #: NAPP2305346278

Delivered By: (Circle One)	Observed Temp. °C 5.1	Sample Condition Cool: Yes / Intact: Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☑ 24hr	Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.5			Thermometer ID #113 Correction Factor -0.5°C	Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 16, 2023

STUART HYDE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WYNONA BMW STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/08/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: FS 01 @ 4-5' (H232414-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	05/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: FS 02 @ 6-7' (H232414-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	**1.71**	1.00	05/15/2023	ND	1.88	93.8	2.00	6.83	GC-NC1
Ethylbenzene*	**1.88**	1.00	05/15/2023	ND	1.96	97.8	2.00	8.23	GC-NC1
Total Xylenes*	**46.5**	3.00	05/15/2023	ND	5.89	98.2	6.00	6.63	GC-NC1
Total BTEX	**50.1**	6.00	05/15/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	05/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2910**	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	**5320**	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	**56.3**	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *1410 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/11/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: FS 03 @ 14' (H232414-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	**0.152**	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	GC-NC1
Ethylbenzene*	**0.491**	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	GC-NC1
Total Xylenes*	**2.73**	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	GC-NC1
Total BTEX	**3.38**	0.300	05/15/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *133 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**64.1**	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	**68.6**	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *135 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *135 %* *49.1-148*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/11/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: FS 04 @ 14' (H232414-04)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	1.92	95.9	2.00	8.71	
Toluene*	<0.050	0.050	05/15/2023	ND	1.88	93.8	2.00	6.83	
Ethylbenzene*	**0.293**	0.050	05/15/2023	ND	1.96	97.8	2.00	8.23	GC-NC1
Total Xylenes*	**1.47**	0.150	05/15/2023	ND	5.89	98.2	6.00	6.63	GC-NC1
Total BTEX	**1.76**	0.300	05/15/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *136 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**46.1**	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	**45.9**	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *141 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *145 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: FS 05 @ 8-9' (H232414-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *137 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *146 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: FS 06 @ 9-10' (H232414-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	**16.1**	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *141 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *151 %* *49.1-148*

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Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 01 @ 0-4' (H232414-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

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Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 02 @ 4-9' (H232414-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *88.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.0 %* *49.1-148*

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Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 03 @ 0-4' (H232414-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *135 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *145 %* *49.1-148*

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Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 04 @ 4-6' (H232414-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *81.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.9 %* *49.1-148*

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CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/10/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 05 @ 0-4' (H232414-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *128 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/10/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 06 @ 4-9' (H232414-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *125 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *133 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/10/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 07 @ 0-4' (H232414-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/09/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 08 @ 4-10' (H232414-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *93.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
STUART HYDE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	05/15/2023	Sampling Date:	05/11/2023
Reported:	05/16/2023	Sampling Type:	Soil
Project Name:	WYNONA BMW STATE #1	Sampling Condition:	Cool & Intact
Project Number:	03C2000013	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG 32.2689095,-103.526741		

Sample ID: SW 09 @ 4-9' (H232414-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.24	112	2.00	3.38	
Toluene*	<0.050	0.050	05/16/2023	ND	2.22	111	2.00	3.57	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.15	108	2.00	4.92	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.55	109	6.00	4.04	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/16/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2023	ND	197	98.4	200	0.107	
DRO >C10-C28*	**38.1**	10.0	05/15/2023	ND	184	92.0	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Stuart Hyde	P.O. #:
Address: 3122 National Parks Hwy	Company: E-DG Resources
City: Carlsbad State: NM Zip: 88220	Attn: Chase Settle
Phone #: 970 903 1607 Fax: ~~03C20000134~~	Address: 105 S. 4th St
~~Project #: 03C20000134~~ Project Owner: (project number)	City: Artesia
Project Name: WYNONA BIW STATE #1	State: NM Zip: 88210
Project Location: 32.2689095, -103.5267411	Phone #:
Sampler Name: Dmitry Nikanorov	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H232414																X	X	X
1	FS01	4-5'	C	1			X					X		5/8/23	1420			
2	FS02	6-7'												5/9/23	0850			
3	FS03	14'												5/11/23	1040			
4	FS04	14'												5/11/23	1050			
5	FS05	8-9'												5/9/23	0905			
6	FS06	9-10'												5/9/23	0910			
7	SW01	0-4'												5/9/23	1230			
8	SW02	4-9'												5/9/23	1235			
9	SW03	0-4'												5/9/23	0925			
10	SW04	4-6'												5/9/23	1240			

Relinquished By: DN	Date: 5/15/23 Time: 1425	Received By: Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: shyde@ensolum.com dnikanorov@ensolum.com, tmorrissey@ensolum.com
			REMARKS: Incident ID: nAPP2305346278

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -0.1 Corrected Temp. °C -0.7	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) SR	Turnaround Time: Standard ☐ Rush ☒ 24H Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Stuart Hyde	P.O. #:
Address: 3122 National Parks Hwy	Company: EOG Resources
City: Carlsbad State: NM Zip: 88220	Attn: Chase Settle
Phone #: 9709037607 Fax #: (Project number:)	Address: 105 S. 4th St
~~Project #: 03C2000013~~ Project Owner: 03C2000013	City: Artesia
Project Name: WYNONA BMW STATE #1	State: NM Zip: 88210
Project Location: 32.2689095 -103.5267491	Phone #:
Sampler Name: Dmitry Nikamorov	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H232414																		
11	SW05	0-4'	X	1			X					X		5/10/23	1000	X	X	X
12	SW06	4-9'													1010			
13	SW07	0-4'													1040			
14	SW08	4-10'												5/9/23	1300			
15	SW09	4-9'												5/11/23	1100			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: DN	Date: 5/15/23 Time: 1425	Received By: S Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: shyde@ensolumcom dnikamorov@ensolum.com
			REMARKS: Incident ID: nAPP2305346278

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -0.1 Corrected Temp. °C -0.7	Sample Condition Cool Intact ☐ Yes ☐ Yes ☐ No ☐ No	CHECKED BY: (Initials) SR	Turnaround Time: Standard ☐ Rush 24h Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Amber Griffin
To: Stuart Hyde; Tacoma Morrissey
Subject: FW: [EXTERNAL] Wynona BMW State 1 (nAPP2305346278) Sampling Notification
Date: Monday, April 24, 2023 8:07:24 AM
Attachments: image003.png

[**EXTERNAL EMAIL**]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, April 24, 2023 7:39 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Wynona BMW State 1 (nAPP2305346278) Sampling Notification

FYI

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, April 21, 2023 4:21 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Wynona BMW State 1 (nAPP2305346278) Sampling Notification

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Friday, April 21, 2023 9:30 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Wynona BMW State 1 (nAPP2305346278) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Wynona BMW State 1
A-20-12S-34E
Lea County, NM
nAPP2305346278

Sampling will begin at 9:00 a.m. on Wednesday, April 26, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Tacoma Morrissey

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, May 4, 2023 2:54 PM
To: Stuart Hyde; Tacoma Morrissey
Subject: FW: Wynona BMW State 1 (naPP2305346278) Sampling Notification

[**EXTERNAL EMAIL**]

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, May 4, 2023 4:58 AM
To: ocd.enviro@emnrd.nm.gov; spills@slo.state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Wynona BMW State 1 (naPP2305346278) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Wynona BMW State 1
A-20-12S-34E
Lea County, NM
nAPP2305346278

Sampling will begin at 8:00 a.m. on Monday, May 8, 2023, and continue through Friday, May 12, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 219002
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved as written. Remediation Due date updated to April 17, 2024.	1/18/2024