

Incident ID	nAPP2305346278
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 06/21/2023
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 09/19/2023
Printed Name: Nelson Velez Title: Environmental Specialist - Adv



June 21, 2023

New Mexico Oil Conservation Division

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

Re: Closure Report

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 *Closure Request* to document excavation and soil sampling activities performed at the Wynona BMW State #1 former production well pad (Site). The purpose of the excavation and soil sampling activities, conducted in accordance with the *Remediation Work Plan* (dated May 22, 2023), was to address impacted soil remaining at the Site after initial excavation activities were conducted. This report describes the additional excavation activities that have occurred and formally requests Site Closure for Incident Number nAPP2305346278.

RELEASE BACKGROUND

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 (Figure 1). 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.

Ensolum conducted delineation and excavation activities and presented the results in the *Remediation Work Plan* on May 22, 2023. The *Remediation Work Plan* proposed additional excavation in the location of confirmation floor soil sample FS02 (Figure 2), where laboratory analytical results indicated elevated concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTX) and total petroleum hydrocarbons (TPH) at a depth of approximately 6 feet to 7 feet below ground surface (bgs).

As documented in the *Remediation Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- BTEX: 50 mg/kg
- 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 Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (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.

ADDITIONAL EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 24, 2023, additional excavation commenced by use of heavy equipment to a maximum vertical depth of 13 feet bgs in the vicinity of confirmation floor soil sample FS02. To direct excavation activities, Ensolum personnel field screened soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Based on field observations, impacts were primarily present in the center of the excavation. The excavation and soil sampling locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

Following removal of soil, Ensolum personnel collected one 5-point composite soil sample representing 200 square feet from the floor of the excavation from sloping depths between 7 and 13 feet bgs (sample FS02A). Because impacts were primarily present in the center of area FS02A (based on field observations), sloping sidewalls within this area were incorporated into the composite floor sample. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil sample was 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 sample was transported under strict chain-of-custody procedures to Cardinal Laboratories in Hobbs, New Mexico for analysis of the following chemicals 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; and chloride following Standard Method (SM) 4500Cl-B.

Laboratory analytical results for the excavation floor sample FS02A indicated COC concentrations were compliant with the applicable Closure Criteria and reclamation requirements. Laboratory analytical results are summarized in Table 1, with complete laboratory analytical reports included in Appendix A. Sampling notifications provided to the NMOCD are attached as Appendix B. Photographic documentation of the field activities is presented in Appendix C. The final excavation extent measured approximately 1,147 square feet with depths ranging from 4 feet to 14 feet bgs. In total, approximately 808 cubic yards of impacted soil were removed from the Site and taken to the Gandy Marley, Inc. landfarm facility.

CLOSURE REQUEST

Assessment and excavation activities were conducted at the Site to address the historical release discovered in February 2023. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and no further remediation is required. After completion of confirmation sampling and receipt of laboratory analytical results, the excavation was backfilled with locally sourced, clean material and the Site was recontoured to match pre-existing conditions. Excavation of soil has mitigated historical impacts and the remedial actions at the Site are protective of human health, the environment, and groundwater. As such, EOG respectfully requests closure and no further action for Incident Number nAPP2305346278.

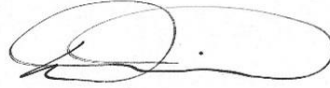
EOG Resources, Inc.
Closure Report
Wynona BMW State #1

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

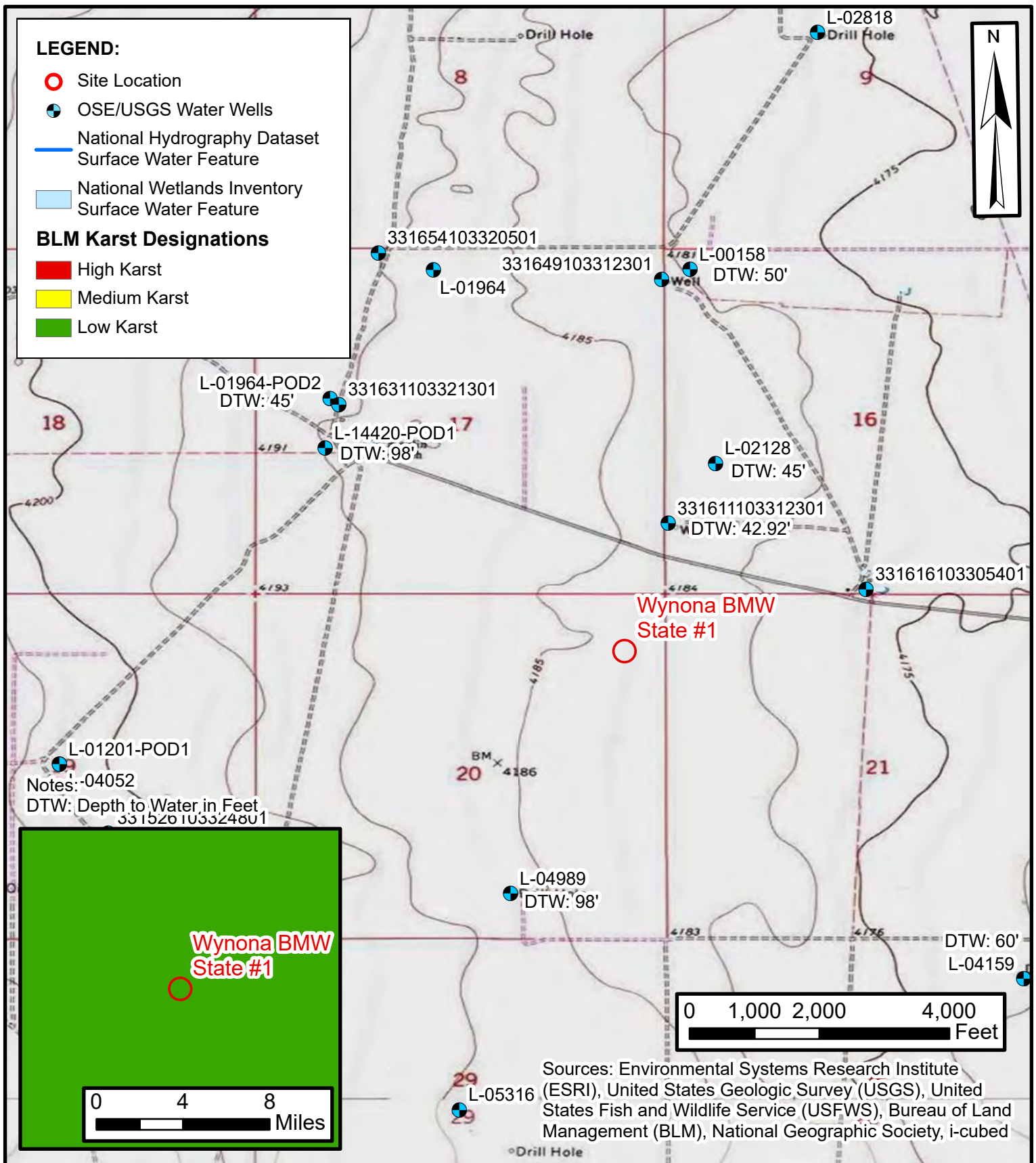
cc: Chase Settle, EOG

Attachments:

Figure 1	Site Location Map
Figure 2	Excavation Soil Sample Locations
Table 1	Excavation Soil Sample Analytical Results
Appendix A	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix B	NMOCD Notifications
Appendix C	Photographic Log



FIGURES



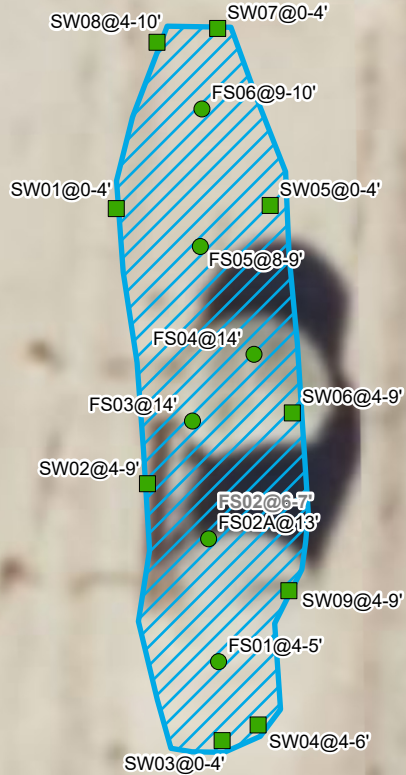
Site Location Map

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

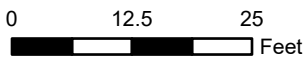
FIGURE
1

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.
Sample in bold indicate sample exceeds closure criteria.
Samples in grey indicate sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

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

FIGURE
2



TABLES



TABLE 1
EXCAVATION 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
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
FS02A	05/24/2023	7 - 13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
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	0.300	<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
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

BTEX: Benzene, Toluene,

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

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



APPENDIX A

Laboratory Analytical Reports & Chain of Custody Documentation



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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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

BTX 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 BTX	<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

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Celey D. Keene, Lab Director/Quality Manager



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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/11/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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

BTX 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 BTX	3.38	0.300	05/15/2023	ND					GC-NC1

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

Chloride, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/11/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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

BTX 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 BTX	1.76	0.300	05/15/2023	ND					GC-NC1

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

Chloride, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/15/2023
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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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Analytical Results For:

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

Received: 05/15/2023
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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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Analytical Results For:

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

Received: 05/15/2023
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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

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Analytical Results For:

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

Received: 05/15/2023
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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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Analytical Results For:

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

Received: 05/15/2023
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/09/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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
Reported: 05/16/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/11/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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				ANALYSIS REQUEST											
Project Manager: <u>Stuart Hyde</u>				P.O. #:															
Address: <u>3122 Natural Parks Hwy</u>				Company: <u>EDGE Resources</u>															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Chase Settle</u>															
Phone #: <u>972 903 1607</u> Fax #: <u>903 2000013</u>				Address: <u>1050 4th St</u>															
Project #: <u>036200013</u> Project Owner: <u>Project number</u>				City: <u>Antesia</u>															
Project Name: <u>WYNONA BMW STATE #1</u>				State: <u>NM</u> Zip: <u>88210</u>															
Project Location: <u>32.2689095, -103.526741</u>				Phone #:															
Sampler Name: <u>Dmitry Nikanorov</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		TPH	BTEX	Chlorides				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL				OTHER	DATE	TIME	
<u>H232414</u>	<u>FS01</u>	<u>4-5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>1</u>							
<u>1</u>	<u>FS02</u>	<u>6-7'</u>																	
<u>2</u>	<u>FS03</u>	<u>14'</u>																	
<u>3</u>	<u>FS04</u>	<u>14'</u>																	
<u>4</u>	<u>FS05</u>	<u>8-9'</u>																	
<u>5</u>	<u>FS06</u>	<u>8-10'</u>																	
<u>6</u>	<u>SW01</u>	<u>0-4'</u>																	
<u>7</u>	<u>SW02</u>	<u>4-9'</u>																	
<u>8</u>	<u>SW03</u>	<u>0-4'</u>																	
<u>9</u>	<u>SW04</u>	<u>4-6'</u>																	

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Relinquished By: <u>DN</u>	Date: <u>5/15/23</u> Time: <u>1435</u>	Received By: <u>Slodrigm</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <u>shyde@ensolum.com</u> <u>dnikanorov@ensolum.com</u> , <u>tmorrissey@ensolum.com</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>-0.1</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	REMARKS: <u>Incident ID: APP2305346278</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>-0.7</u>	Checked By: (Initials) <u>82</u>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
			Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 <u>2414</u> Correction Factor: -0.5°C

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



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				ANALYSIS REQUEST											
Project Manager: <u>Stuart Hyde</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">APR</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>											
Address: <u>3122 National Parks Hwy</u>				Company: <u>EOG Resource</u>															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Chase Settle</u>															
Phone #: <u>970 903 1607</u> Fax #: <u>(project number)</u>				Address: <u>105 S. 4th St</u>															
Project #: <u>03C2000013</u> Project Owner: <u>03C2000013</u>				City: <u>Artesia</u>															
Project Name: <u>WYNONA BMW STATE #1</u>				State: <u>NM</u> Zip: <u>88210</u>															
Project Location: <u>32.2689095 - 103.526741</u>				Phone #:															
Sampler Name: <u>Dmitry Nkanorov</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING									
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
<u>H232414</u>																			
<u>11</u>	<u>SW05</u>	<u>0-4'</u>	<u>X</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>5/10/23</u>	<u>1000</u>	<u>X</u>			
<u>12</u>	<u>SW06</u>	<u>4-9'</u>													<u>1010</u>				
<u>13</u>	<u>SW07</u>	<u>0-4'</u>													<u>1040</u>				
<u>14</u>	<u>SW08</u>	<u>4-10'</u>												<u>5/9/23</u>	<u>1300</u>				
<u>15</u>	<u>SW09</u>	<u>4-9'</u>												<u>5/11/23</u>	<u>1100</u>				

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Relinquished By: <u>DN</u>	Date: <u>5/15/23</u> Time: <u>1425</u>	Received By: <u>Shodkriquet</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <u>shyde@ensolum.com</u> <u>dnkanorov@ensolum.com</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>-0.1</u>	Sample Condition	REMARKS: <u>Incident ID: 2 APP 2 305346278</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>-0.7</u>	Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <u>24h</u>
		Checked By: (Initials) <u>SK</u>	Standard <input type="checkbox"/> Bacteria (only) <input type="checkbox"/>
			Thermometer ID #113 Correction Factor -0.5°C
			Sample Condition Observed Temp. °C
			Corrected Temp. °C

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

May 30, 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 05/24/23 12:47.

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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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: 05/24/2023
Reported: 05/30/2023
Project Name: WYNONA BMW STATE #1
Project Number: 03C2000013
Project Location: EOG 32.2689095,-103.526741

Sampling Date: 05/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02A @ 13' (H232647-01)

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	05/25/2023	ND	2.14	107	2.00	1.00	
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342	
Total BTEX	<0.300	0.300	05/25/2023	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	05/25/2023	ND	432	108	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	05/25/2023	ND	190	95.2	200	4.36	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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



APPENDIX B

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

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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](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



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



Artesia Division

From: [Amber Griffin](#)
To: [Stuart Hyde](#); [Tacoma Morrissey](#)
Subject: FW: [EXTERNAL] Wynona BMW State 1 (nAPP2305346278) Sampling Notification
Date: Monday, May 22, 2023 7:48:37 AM
Attachments: [image003.png](#)

[**EXTERNAL EMAIL **]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, May 22, 2023 7:36 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, May 19, 2023 1:30 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Wynona BMW State 1 (nAPP2305346278) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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, May 19, 2023 7:55 AM

To: Enviro, OCD, EMNRD <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: [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 8:00 a.m. on Wednesday, May 24, 2023.

Thank you,

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



Artesia Division



APPENDIX C

Photographic Log



Photographic Log

EOG Resources, Inc.
Wynona BMW State #1
NAPP2305346278



Photograph 1 Date: 05/11/2023
Description: Previous excavation extent.
View: Northwest



Photograph 2 Date: 05/24/2023
Description: Additional excavation activities.
View: South



Photograph 3 Date: 05/24/2023
Description: FS02A within excavation extent.
View: South



Photograph 4 Date: 05/24/2023
Description: Final excavation extent.
View: North

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

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

CONDITIONS

Action 231231

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 231231
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/19/2023