



March 2, 2026

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Attn: Mr. John Gizicki
UIC Program Manager

RE: Application for UIC Permit and Authorization to Drill a Class II Injection Well
Location of proposed Disposal Well & Facility: KATANA 1 SWD
SENE, Section 6, Township 28N, Range 57E. P.M.M.
Roosevelt County, Montana

Dear Mr. Gizicki,

Phoenix Operating LLC (Phoenix) respectfully requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. Phoenix has provided notice to the appropriate parties within $\frac{1}{4}$ mile area of review of the proposed well location and requests that the application be placed on the docket for the MBOGC hearing scheduled April 9th, 2026.

If you have any questions concerning the enclosed application, please do not hesitate to reach out.

Sincerely,

Tori Siemieniewski
Director – Bakken Regulatory
Phoenix Operating LLC
701-870-2961

David Scadden
Chief Operating Officer, Partner
Phoenix Operating LLC
307-214-7909



February 25, 2026

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Attn: Mr. John Gizicki
UIC Program Manager

RE: Application for UIC Permit and Authorization to Drill a Class II Injection Well
Location of proposed Disposal Well & Facility: KATANA 1 SWD
SENE, Section 6, Township 28N, Range 57E. P.M.M.
Roosevelt County, Montana

RECEIVED

FEB 27 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Dear Mr. Gizicki,

Phoenix Operating LLC (Phoenix) respectfully requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. Phoenix has provided notice to the appropriate parties within ¼ mile area of review of the proposed well location and requests that the application be placed on the docket for the MBOGC hearing scheduled April 9th, 2026.

If you have any questions concerning the enclosed application, please do not hesitate to reach out.

Sincerely,

Tori Siemieniewski
Director – Bakken Regulatory
Phoenix Operating LLC
701-870-2961

Submit in Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator PHOENIX OPERATING LLC Address 4643 SOUTH ULSTER STREET, SUITE 1510 City DENVER State CO Zip Code 80237 Telephone 303-548-1953 Fax _____		Lease Name: KATANA Type (Private/State/Federal/Tribal/Allotted): <p align="center">Private</p> Well Number: 1 SWD	
Location of well (1/4-1/4 section and footage measurements): SENE Section 6, T28N, R57E, 2232' FNL & 379' FEL		Unit Agreement Name: Field Name or Wildcat: <p align="center">Elm Coulee NE</p> Township, Range, and Section: <p align="center">Section 6, T28N, R57E</p>	
API Number: 25 _____ _____ <small>State County Well</small>	Well Type (oil, gas, injection, other): <p align="center">INJECTION</p>	County: <p align="center">Roosevelt</p>	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans <input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test <input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test <input type="checkbox"/>	Subsequent Report of Stimulation or Treatment <input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat <input type="checkbox"/>	Subsequent Report of Perforation or Cementing <input type="checkbox"/>
Notice of Intention to Perforate or to Cement <input type="checkbox"/>	Subsequent Report of Well Abandonment <input type="checkbox"/>
Notice of Intention to Abandon Well <input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing <input type="checkbox"/>
Notice of Intention to Pull or Alter Casing <input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal <input type="checkbox"/>
Notice of Intention to Change Well Status <input type="checkbox"/>	Subsequent Report of Production Waste Disposal <input type="checkbox"/>
Supplemental Well History <input type="checkbox"/>	Subsequent Report of Change in Well Status <input type="checkbox"/>
Other (specify) <u>Intent to drill and complete a</u> <input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222) <input type="checkbox"/>
Class II Injection Well <input type="checkbox"/>	_____ <input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Phoenix respectfully requests approval to drill and complete a disposal well at the above-referenced location for the injection of Class II E&P waste. Notice has been provided to all parties within the quarter mile area of review. An application for hearing has been docketed with the Montana Board of Oil and Gas Conservation and is scheduled for April 2026.

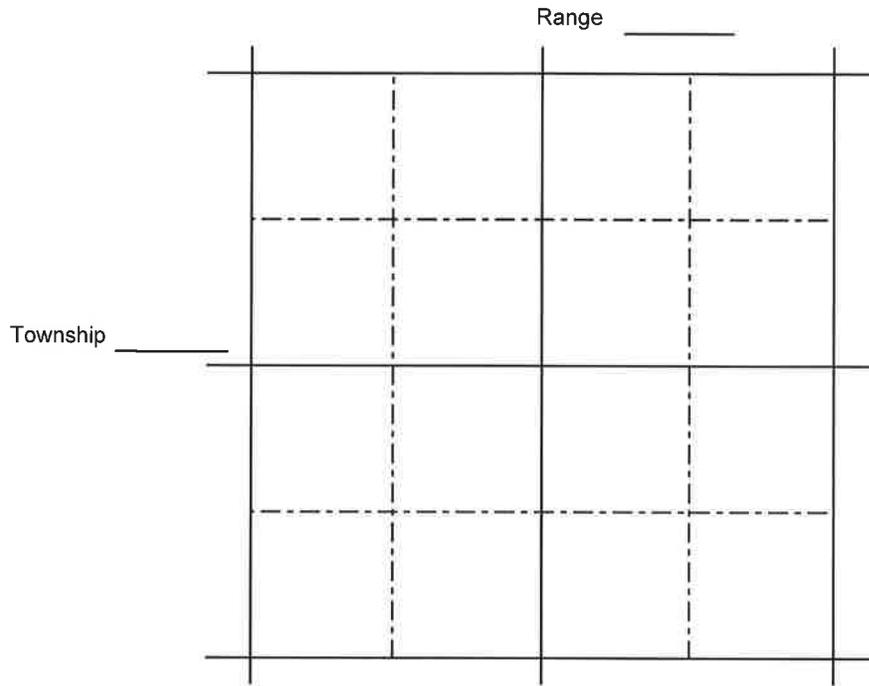
Phoenix requests a variance from running open hole logs on the subject well. Offset logs can be found for the Leonard 1-13 (API#25085211790000).

BOARD USE ONLY	The undersigned hereby certifies that the information contained on this application is true and correct:
Approved _____ <p align="center">Date</p> _____ <p align="center">Name Title</p>	2/26/2026 Date Signed (Agent) <p align="center">Megan Griffith, Regulatory Specialist</p> Print Name and Title Telephone: 720-250-8737

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

UIC Plan KATANA 1 SWD

1. Operator Description

Phoenix Operating LLC

4643 South Ulster Street, Suite 1510
Denver, CO 80237

2. Proposed Well Location

Well Name: KATANA 1 SWD
Location: 2232' FNL & 379' FEL, Section 6, T28N, R57E, Roosevelt County.
Field: Elm Coulee NE
Ungraded Ground Elevation: 2268'
Finished Pad Elevation: 2268'

3. Lithologic Description of the Proposed Injection & Confining Zone

Injection Zone: Inyan Kara Formation

Estimated Top: 5098' TVD
Estimated Thickness: 619'

Description: consists of alternating fluvial deltaic sandstones, siltstones, and shales varying thickness and lateral extent. Stratigraphic variability in the Inyan Kara is generally interpreted to be the result of multiple episodes of erosion and subsequent channel-filling.

Upper Confining Zone: Mowry Formation

Estimated Top: 4364' TVD
Estimated Thickness: 734'

Description: medium to dark gray, soft, flaky, often bentonitic, shale. Lower Cretaceous Dakota Group consists of offshore marine shales and bentonitic claystone.

Lower Confining Zone: Swift Formation

Estimated Top: 5717' TVD
Estimated Thickness: 443'

Description: dark gray to greenish, fissile, waxy, silty, and often calcareous shale. The Jurassic Swift formation lies conformably below the Inyan Kara. The Swift is made up of shallow marine shale and siltstone.

*Offset geologic tops calculated from Leonard 1-13(API#25085211790000).

4. Maximum Injection Pressure Calculation

Maximum injection pressure was determined utilizing the following formula in accordance with §146.23

$$\text{MSIP} = (\text{Depth of Perf(TVD)}) * (\text{Frac. Grad.}) - (\text{Water Grad.}) * (\text{SG Injectate}) * (\text{Depth of Perf})$$

MSIP = Maximum Surface Injection Pressure (measured at surface)

Depth of Perf = Top Perf (TVD)

0.733 psi/ft = Fracture Gradient

0.433 psi/ft = Freshwater gradient, psi/ft.

SG Injectate = specific gravity (of injected fluid from produced water samples)

0.433 = freshwater gradient, psi/ft.

$$\text{MSIP} = (5208 * .733) - (0.433 * 1.21) * 5208$$

$$\text{MSIP} = 1131.7 \text{ psi}$$

5. Proposed Injection Program

The Operator plans to drill a saltwater injection well and inject into the Inyan Kara formation of the Dakota Group. See above sections 4 and 5 for proposed injection volume and pressure maximums. The well has no plans to take third party volumes at this time. The proposed well is to be utilized by wells drilled from the same well pad. See appendix C for well list. No truck unloading is currently planned. □

6. Facilities Design

The proposed tanks will be constructed of steel in accordance to industry specifications. The design and construction of each bulk storage container will be compatible with the characteristics of the product it contains including temperature and pressure conditions. Piping between fixed above ground bulk storage tanks will be supported to minimize stress.

A 3' high metal containment will be constructed around the tank battery. A geomembrane liner shall be installed that extends and overlaps the steel wall containment maintaining continuous impermeable surface. A site perimeter berm approximately 2' high will be installed as well.

Please note: The proposed well is located on site with planned oil wells. The SWD facilities and the oil facilities are co-located within the same berms.

7. Spill Prevention and Monitoring Controls:

In addition to the previously mentioned secondary and tertiary containment (#7), the Operated facilities are equipped with 24-hour SCADA (Supervisory Control and Data Acquisition) remote monitoring systems. Onsite alarms are routed to the local PLC/HMI (Programmable Logic Controller/Human-Machine Interface), and then transmitted to SCADA. This setup enables real-time communication of potential issues at remote production facilities, significantly reducing detection time. The system alerts Operations personnel, allowing them to respond promptly and mitigate any concerns before they escalate into incidents. Below are some of the associated alarms:

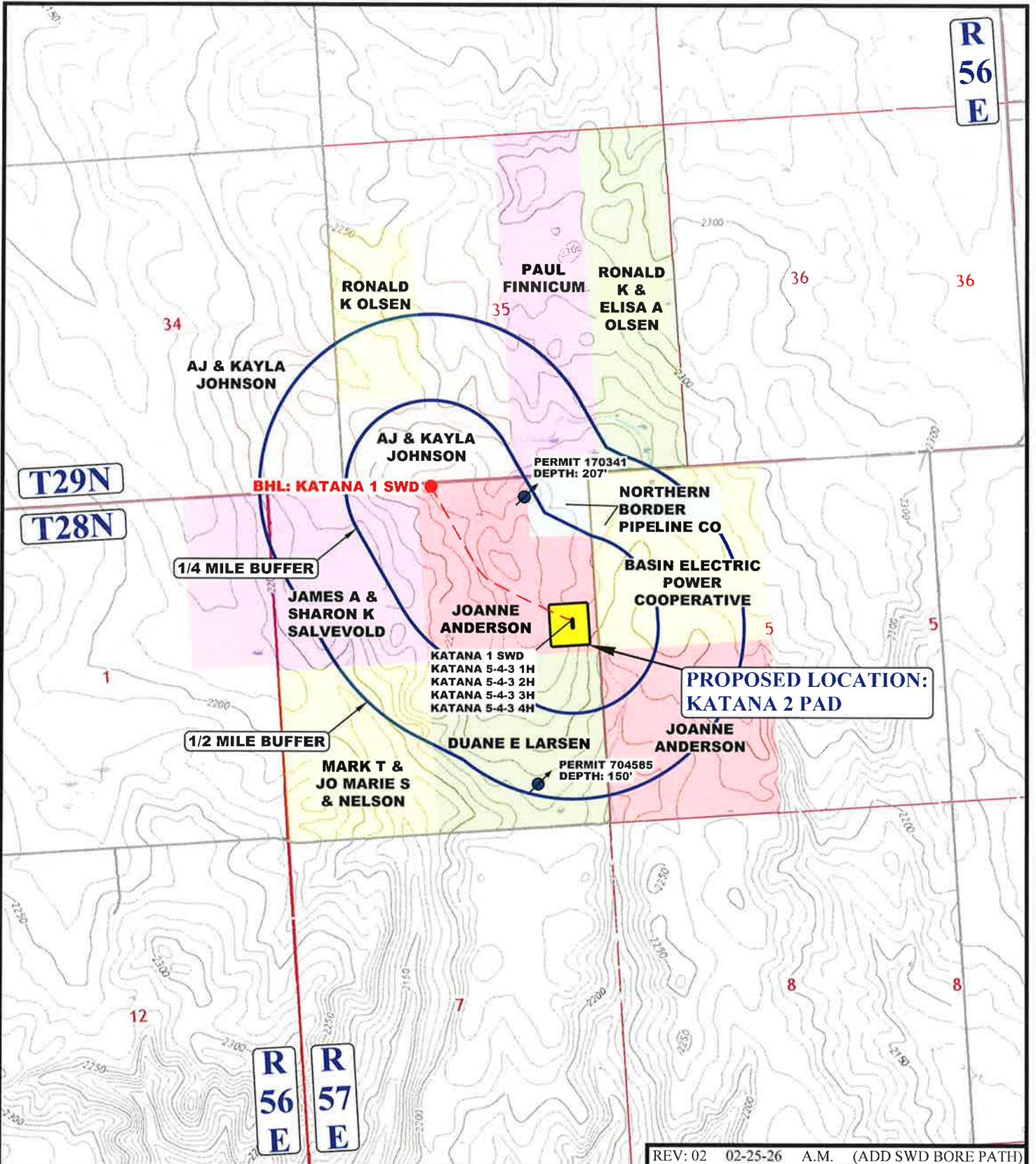
- Tank alarms: Each tank is equipped with a high-level alarm. If the fluid level continues to rise, an additional alarm is triggered to close the Emergency Shut Down Valve (ESDV) on the facility's inlet streams, preventing more fluid from entering the tank.
- Separator alarms: Each treater is fitted with a high-level alarm. Should the level continue rising, a secondary alarm will initiate closure of the ESDV on the facility's inlet streams to halt additional fluid inflow.
- Additional SCADA monitoring includes: tubing pressure, vibration monitoring, and low- and high-flow alarms, among others.

In accordance with EPA regulations, a SPCC (Spill Prevention, Control, and Countermeasure) Plan will be implemented within six months of commissioning. The plan evaluates site-specific measures for spill prevention and control, and outlines documented response protocols. The Operator currently conducts regular SPCC inspections to ensure compliance with applicable regulations. Additionally, annual SPCC training is mandatory for all personnel handling oil.

8. Appendices

- i. AOR Maps
- ii. FW SAMPLE ANALYSIS
- iii. REPRESENTATIVE LOG
- iv. WATER ANALYSIS (2 SOURCE WELLS)
- v. DRILLING & COMPLETIONS PLAN
- vi. WBD
- vii. LIST OF OWNERS (Surface & Mineral) WITHIN 1/4 MILE
- viii. AFFIDAVIT OF MAILING
- ix. EXAMPLE OF LANDOWNER NOFITICATIONS (SURFACE & MINERAL)

Appendix I
AOR MAP
KATANA 1 SWD



REV: 02 02-25-26 A.M. (ADD SWD BORE PATH)

LEGEND:

WATER WELLS



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



PHOENIX OPERATING LLC

KATANA 2 PAD
 SE 1/4 NE 1/4, SECTION 6, T28N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	E.S.	09-17-25	SCALE
DRAWN BY	D.J.G.	09-19-25	1 : 24,000

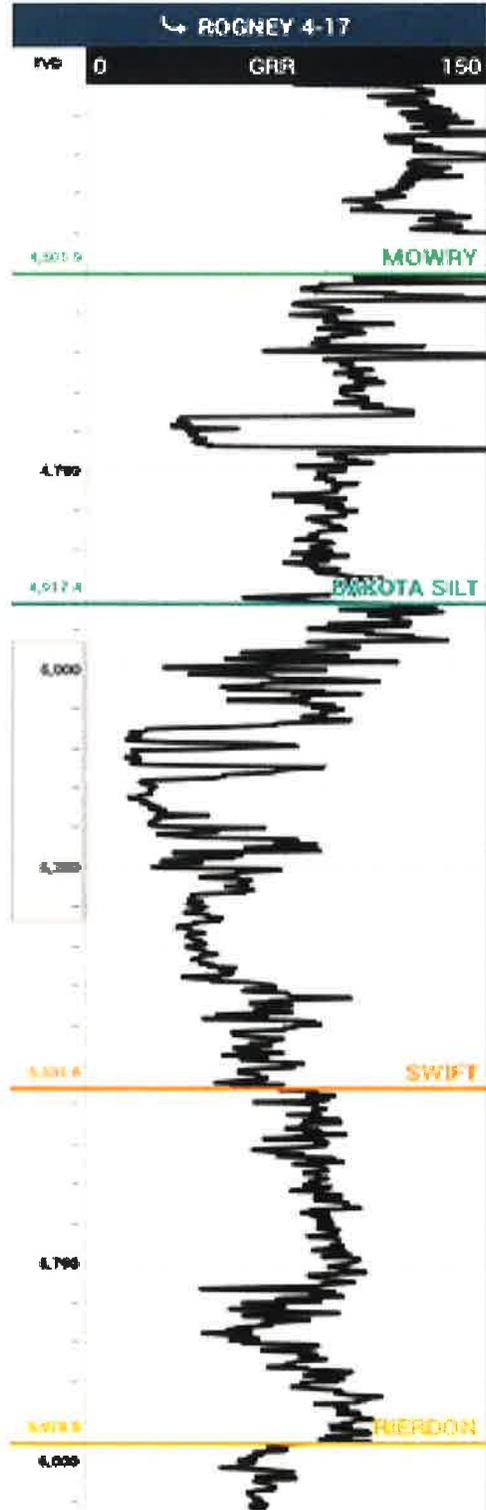
WELL PROXIMITY MAP **TOPO C**

Appendix II
FW SAMPLE ANALYSIS
KATANA 1 SWD

Per conversations with MBOGC UIC, a representative sample is already on file. No submission needed.

Appendix III
REPRESENTATIVE LOG
KATANA 1 SWD

Well: Leonard 1-13
API: 25085211790000



Appendix IV
WATER ANALYSIS (2 SOURCE WELLS)
KATANA 1 SWD

See below for source well list. Phoenix Operating is currently permitting multiple wells on the same pad location as this proposed SWD. The Operator plans to only inject water from on pad wells. However, the sample included is representative of produced water in the area and was obtained from the nearby Milloy 10-3-24 #2H and Snyder 1-12 #1H wells.

File No:	Well Name:	Permit Status
TBD	KATANA 5-4-3 1H	Submitted
TBD	KATANA 5-4-3 2H	Submitted
TBD	KATANA 5-4-3 3H	Submitted
TBD	KATANA 5-4-3 4H	Submitted



MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com



Account #: 23037

Client: Astro-Chem Laboratory, Inc.

Analytical Results

Lab ID: 65921001 **Date Collected:** 09/21/2024 10:30 **Matrix:** Groundwater
Sample ID: Treater (Production Water) **Date Received:** 09/27/2024 10:55 **Collector:** Client

Temp @ Receipt (C): 21.0 **Received on Ice:** No

Parameter	Results	Units	RDL	DF	Prepared	Analyzed	Qual
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Method: ASTM D1298

Density	1.210 @ 65.0 F	g/cm3		1		10/01/2024 11:30	
Specific Gravity	1.210 @ 65.0 F	at 60/60F		1		10/01/2024 12:24	

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Report Date: Wednesday, October 2, 2024 4:29:04 PM



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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com



Account #: 23037

Client: Astro-Chem Laboratory, Inc.



Chain of Custody & Analyt

Astro-Chem Laboratory, Inc
WO: 65921



Page 1 of 1

Account Information (Billing Information)

Company Name: Astro-Chem Lab, Inc.
Contact: Christina Jungels
Phone: 701-572-7355
Mailing Address: PO Box 972
City, State, Zip: Williston, ND 58802-0972
Email: astrochem@midconetwork.com

Report Information (if different)

Company Name: Phoenix Operating
Contact:
Phone:
Mailing Address:
City, State, Zip:
Email: astrochem@midconetwork.com

Project Information

Project Name: PWSID, Permit, etc. Milloy 10-3-24 #2H Well Pad
Sampler Name: Dave Scadden
Sampler Phone: 303-548-1953
Sample Origin: State ND
EPA/State Compliance: Yes No

Matrix Codes

- A - Air
W - Water
S - Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

Analysis Requested

Table with columns for Specific Gravity, Density, and Analysis Requested. Row 1: Treater (Production Water) with checkmarks for Specific Gravity and Density.

All turnaround times are standard unless marked as RUSH.
Astro-Chem Lab MUST be contacted prior to RUSH sample submittal for charges and scheduling!

Sample Identification

Table with columns for Name, Location, Interval, etc. Row 1: Treater (Production Water)

Collection

Table with columns for Date, Time, Number of Containers, Matrix. Row 1: 09/21/2024, 10:30 am, 1, W

Matrix

Table with columns for Matrix (See Codes Above), Specific Gravity, Density. Row 1: W, checkmarks for Specific Gravity and Density.

See Attached

WATER TAT

LAB ID Laboratory Use Only

Custody Record MUST be signed. Includes fields for Relinquished by (print), Date/Time, Signature, Received by (print), Date/Time, Signature, and Laboratory Use Only section with Shipped By, Cooler ID(s), Custody Seals, Intact, Receipt Temp, Temp Blank, On Ice, Payment Type, Amount, and Receipt Number.

In certain circumstances, samples submitted to Astro-Chem Lab, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-01/21 v.4

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Report Date: Wednesday, October 2, 2024 4:29:04 PM

Page 3 of 3



October 10, 2024

Christina Jungels
Astro-Chem Lab, Inc.
4102 2nd Ave. W.
Williston, ND 58801

RE: Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Dear Christina Jungels:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Richardson
andrea.richardson@pacelabs.com
(218)341-6080
Project Manager

Enclosures

cc: Accounts Payable, Astro-Chem Lab, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
California Certification# 3096
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
DoD-ANAB #:ADE-3199
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Pace Analytical Services Ormond Beach

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah FL NELAC Reciprocity

Utah

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10709475001	Milloy 10-3-24 #2H Well Pad	Water	09/21/24 10:30	09/26/24 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10709475001	Milloy 10-3-24 #2H Well Pad	EPA 6010D	DM	9	PASI-M
		SM 2320B	KEO	3	PASI-M
		SM 2540C	JKH	1	PASI-M
		SM 4500-H+B	KEO	1	PASI-M
		EPA 120.1 Resistivity	SWB	1	PASI-O
		SM 2510	KEO	1	PASI-M
		ASTM D5057	JKH	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
		EPA 353.2	JFP	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis
PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

Sample: **Milloy 10-3-24 #2H Well Pad** Lab ID: **10709475001** Collected: 09/21/24 10:30 Received: 09/26/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Minneapolis								
Barium	24000	ug/L	500	10	09/30/24 13:03	10/01/24 12:05	7440-39-3	
Calcium	16200000	ug/L	25000	10	09/30/24 13:03	10/01/24 12:05	7440-70-2	
Chromium	ND	ug/L	500	10	09/30/24 13:03	10/01/24 12:05	7440-47-3	D3
Iron	127000	ug/L	2500	10	09/30/24 13:03	10/01/24 12:05	7439-89-6	
Magnesium	1250000	ug/L	25000	10	09/30/24 13:03	10/01/24 12:05	7439-95-4	
Potassium	8070000	ug/L	125000	10	09/30/24 13:03	10/01/24 12:05	7440-09-7	
Sodium	89500000	ug/L	500000	100	09/30/24 13:03	10/01/24 12:10	7440-23-5	
Strontium	1310000	ug/L	2500	100	09/30/24 13:03	10/01/24 12:10	7440-24-6	
Zinc	17800	ug/L	1000	10	09/30/24 13:03	10/01/24 12:05	7440-66-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	58.4	mg/L	5.0	1		10/03/24 12:08		
Alkalinity,Bicarbonate (CaCO3)	58.4	mg/L	5.0	1		10/03/24 12:08		
Alkalinity,Carboraate (CaCO3)	ND	mg/L	5.0	1		10/03/24 12:08		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Minneapolis								
Total Dissolved Solids	295000	mg/L	250	1		09/27/24 18:38		MW,PP
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	5.5	Std. Units	0.10	1		10/08/24 12:45		H6
Resistivity								
Analytical Method: EPA 120.1 Resistivity								
Pace Analytical Services - Ormond Beach								
Resistivity	1.9	ohms-cm	0.50	1		10/02/24 14:00		N2
SM2510 Specific Conductance								
Analytical Method: SM 2510								
Pace Analytical Services - Minneapolis								
Specific Conductance	209000	umhos/cm	5.0	1		10/01/24 14:36		
Specific Gravity								
Analytical Method: ASTM D5057								
Pace Analytical Services - Minneapolis								
Specific Gravity	1.22			1		10/09/24 22:12		N2
300.0 IC Anions								
Analytical Method: EPA 300.0								
Pace Analytical Services - Minneapolis								
Chloride	167000	mg/L	6000	5000		10/07/24 10:02	16887-00-6	
Sulfate	256	mg/L	120	100		10/05/24 03:08	14808-79-8	
353.2 Nitrate + Nitrite								
Analytical Method: EPA 353.2								
Pace Analytical Services - Minneapolis								
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/06/24 11:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 970670 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D Water
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10709475001

METHOD BLANK: 5072402 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	10/01/24 11:18	
Calcium	ug/L	ND	500	10/01/24 11:18	
Chromium	ug/L	ND	10.0	10/01/24 11:18	
Iron	ug/L	ND	50.0	10/01/24 11:18	
Magnesium	ug/L	ND	500	10/01/24 11:18	
Potassium	ug/L	ND	2500	10/01/24 11:18	
Sodium	ug/L	ND	1000	10/01/24 11:18	
Strontium	ug/L	ND	5.0	10/01/24 11:18	
Zinc	ug/L	ND	20.0	10/01/24 11:18	

LABORATORY CONTROL SAMPLE: 5072403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	993	99	80-120	
Calcium	ug/L	20000	19600	98	80-120	
Chromium	ug/L	1000	977	98	80-120	
Iron	ug/L	20000	20000	100	80-120	
Magnesium	ug/L	20000	19800	99	80-120	
Potassium	ug/L	20000	19900	100	80-120	
Sodium	ug/L	20000	20300	102	80-120	
Strontium	ug/L	1000	1020	102	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5072404 5072405

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10708927001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Barium	ug/L	18.0	1000	1000	1000	990	98	97	75-125	1	20	
Calcium	ug/L	85.3 mg/L	20000	20000	101000	97900	81	63	75-125	3	20	P6
Chromium	ug/L	ND	1000	1000	964	955	96	95	75-125	1	20	
Iron	ug/L	3480	20000	20000	22900	22600	97	96	75-125	1	20	
Magnesium	ug/L	125 mg/L	20000	20000	141000	136000	80	55	75-125	4	20	P6
Potassium	ug/L	14.1 mg/L	20000	20000	34600	33800	103	99	75-125	2	20	
Sodium	ug/L	56.1 mg/L	20000	20000	73300	70900	86	74	75-125	3	20	M1
Strontium	ug/L	559	1000	1000	1540	1510	98	96	75-125	2	20	
Zinc	ug/L	ND	1000	1000	1000	995	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971542 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

METHOD BLANK: 5076911 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	10/03/24 08:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	10/03/24 08:46	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	10/03/24 08:46	

LABORATORY CONTROL SAMPLE & LCSD: 5076912 5076913

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	44.0	42.6	110	106	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5076914 5076915

Parameter	Units	10709079009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	93.6	40	40	134	135	100	103	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5076916 5076917

Parameter	Units	10709141012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	170	40	40	201	202	76	80	80-120	1	20 P6	

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 970573 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

METHOD BLANK: 5072111 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/27/24 18:37	

LABORATORY CONTROL SAMPLE: 5072112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	992	99	80-120	

SAMPLE DUPLICATE: 5072113

Parameter	Units	10709141012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	196	5	10	

SAMPLE DUPLICATE: 5072114

Parameter	Units	10709194003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	157	151	4	10	

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 972286 Analysis Method: SM 4500-H+B
 QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

LABORATORY CONTROL SAMPLE: 5081033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 5081034

Parameter	Units	10709552003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	4.3	4.2	1	3	H6

SAMPLE DUPLICATE: 5081035

Parameter	Units	10710487004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	3	H6

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971086 Analysis Method: SM 2510
 QC Batch Method: SM 2510 Analysis Description: SM2510 Specific Conductance
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10709475001

METHOD BLANK: 5074750 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	10/01/24 13.16	

LABORATORY CONTROL SAMPLE: 5074751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	933	93	90-110	

SAMPLE DUPLICATE: 5074752

Parameter	Units	10708260023 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	882	817	8	20	

SAMPLE DUPLICATE: 5074753

Parameter	Units	10708260024 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1170	1170	1	20	

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 972576 Analysis Method: ASTM D5057
 QC Batch Method: ASTM D5057 Analysis Description: Spec.Gravity/ASTM D5057
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10709475001

SAMPLE DUPLICATE: 5082528

Parameter	Units	10709912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity		1.22	1.22	0	20	N2

SAMPLE DUPLICATE: 5082529

Parameter	Units	10709914001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity		1.22	1.22	0	20	N2

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971880 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10709475001

METHOD BLANK: 5078609 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	10/04/24 23:06	
Sulfate	mg/L	ND	1.2	10/04/24 23:06	

LABORATORY CONTROL SAMPLE: 5078610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5078611 5078612

Parameter	Units	5078611		5078612		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50383317002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	42600 ug/L	50	50	79.6	84.4	74	84	80-120	6	20 M1
Sulfate	mg/L	28200 ug/L	50	50	68.7	72.9	81	89	80-120	6	20

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971645 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

METHOD BLANK: 5077223 Matrix: Water

Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/06/24 11:11	

LABORATORY CONTROL SAMPLE: 5077224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.1	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5077225 5077226

Parameter	Units	5077225		5077226		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10709141012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	108	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5077227 5077228

Parameter	Units	5077227		5077228		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10709145001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	107	106	90-110	1	20	

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QUALIFIERS

Project: Phoenix Operating, LLC

Pace Project No.: 10709475

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MW Due to matrix interference, achieving a constant weight is not possible.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PP The mass of dried residue obtained did not meet the test method requirements based on volume used.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10709475001	Milloy 10-3-24 #2H Well Pad	EPA 3010A	970670	EPA 6010D	971065
10709475001	Milloy 10-3-24 #2H Well Pad	SM 2320B	971542		
10709475001	Milloy 10-3-24 #2H Well Pad	SM 2540C	970573		
10709475001	Milloy 10-3-24 #2H Well Pad	SM 4500-H+B	972286		
10709475001	Milloy 10-3-24 #2H Well Pad	EPA 120.1 Resistivity	1045614		
10709475001	Milloy 10-3-24 #2H Well Pad	SM 2510	971086		
10709475001	Milloy 10-3-24 #2H Well Pad	ASTM D5057	972576		
10709475001	Milloy 10-3-24 #2H Well Pad	EPA 300.0	971880		
10709475001	Milloy 10-3-24 #2H Well Pad	EPA 353.2	971645		

REPORT OF LABORATORY ANALYSIS

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CHAIN of CUSTODY

Client: Phoenix Operating, LLC.

Project: Milloy 10-3-24 #2H Well Pad

Project Manager: Mark Johnson

ASTRO-CHEM LAB, INC.
 4-102 2nd Ave. W.
 P.O. Box 972
 Williston, ND 58801
 701-572-7356
 www.astrochemlab.com

Telephone No.

Fax No.

Method of Shipment

FEDEX OVERNIGHT

Special Detection Limit/Reporting

**Preservative Types: (1) nitric acid (2) sulfuric acid (3) hydrochloric acid (4) sodium hydroxide (5) zinc acetate (6) methanol (7) sodium bisulfate (8) sodium thiosulfate (9) hexane (A) ascorbic acid (B) ammonium sulfate (C) ammonium hydroxide (D) TSP (U) unpreserved (O) Other:

Analysis Requested

1	U	U	U	2	Turn Around Time (working days)
Ca, Mg, Na, Fe, Cr, Ba, K, Sr, Zn	X	X	X	X	
Chloride, Sulfate, pH, Conductivity, Resistivity, Total Dissolved Solids	X	X	X	X	
Specific Gravity, Alkalinity (Carbonate & Bicarbonate)	X	X	X	X	
Nitrate+Nitrite	X	X	X	X	

Matrix	No. of Containers	Sampling Date	Sampling Time
Soil	4	9/21/24	10:30 AM
Water			
Air			
Other			

Sample I.D.	Lab Sample No.	Temp. received:	Ice	No. ice
Milloy 10-3-24 #2H Well Pad (Treater)	(3615)			

WO#: 10709475



Relinquished by	Date	Time	Received by laboratory	Date	Time
D.S. (Vestibute)	9/24/24		Brenda Benth		
Brenda Benth	9/25/24	2:00 pm	Brenda Benth		

REMARKS:

astrochem@midconetlab.com
 www.astrochemlab.com

Lab Work No.

Methods for Analysis (ACL OIL WATER GUIDELINES)

Alkalinity (2320B)

Alkalinity, Bicarbonate (CaCO₃)

Alkalinity, Carbonate (CaCO₃)

Alkalinity, Total as CaCO₃

Nitrate + Nitrite (353.2)

Nitrogen, NO₂ plus NO₃

pH, Electrometric (4500H+B)

8 Metals-Barium, Chromium, Iron, Zinc, Calcium, Magnesium, Sodium, Potassium (6010D MET ICP)

Chloride & Sulfate (300.0 IC Anions)

Resistivity (D1125-14)

Specific Conductance (SM2510)

Specific Gravity (ASTM D5057)

Strontium (6020B MET ICPMS)

Total Dissolved Solids (2540C)

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Astro-Chem Lab, Inc PROJECT #: WO#: 10709475

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

WO#: 10709475

PM: AR4 Due Date: 10/10/24
 CLIENT: 11 Astro Che

TRACKING NUMBER: 7788 1420 3365 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) T7 (0042) T8 (0775) T9 (0727) 01339252 (1710) Melted None

Did Samples Originate in West Virginia: YES NO Were All Container Temps taken: YES NO N/A
 Correction Factor: -0.1 Cooler Temp Read w/Temp Blank: 0.9 °C Average Corrected Temp (no Temp Blank Only): _____ °C
 Cooler Temp Corrected w/Temp Blank: 0.8 °C
 NOTE: Temp should be above freezing to 6°C. See Exceptions Form ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: JMW 9/26/24
 Did Samples originate from one of the following states (check maps) AL, AR, AZ, CA, FL, GA, ID, IA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): YES NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	DULUTH	MINNEAPOLIS	VIRGINIA	YES	NO	N/A	COMMENT(S)												
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.												
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.												
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.																
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No												
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____												
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.												
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.												
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.												
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>													
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.												
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO												
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <u>NO label on sample id only match with Lab Sample number</u> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142												
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Sample #: <u>001</u> <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4">pH Paper Lot #</th> </tr> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td><u>205224</u></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	pH Paper Lot #				Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip		<u>205224</u>		
pH Paper Lot #																			
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip																
	<u>205224</u>																		
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.												
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.												
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140												
Trip Blanks Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.												
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____												

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Anchea Richardson Date: 9/27/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).
 Labeled By: JMW Line: 2

Internal Transfer Chain of Custody



Rush Multiplier X
 Samples Pre-Logged into eCOC
 Workorder: 10709475 Workorder Name: Phoenix Operating, LLC
 Report To: Subcontract To

State Of Origin: ND
 Cert. Needed: Yes No
 Owner Received Date: 9/26/2024 Results Requested By: 10/10/2024

Andrea Richardson
 Pace Analytical Minnesota
 1700 Elm Street
 Minneapolis, MN 55414
 Phone (218)341-6080

Pace Analytical Ormond Beach
 8 East Tower Circle
 Ormond Beach, FL 32174
 Phone (386)672-5668



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					Resistivity	LAB USE ONLY
						1	2	3	4	5		
1	Milloy 10-3-24 #2H Well Pad	PS	9/21/2024 10:30	10709475001	Water	1					X	
2												
3												
4												
5												

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Michelle Uffere	9/24/2024	Pat Pace	9/24/2024	
2					
3					

Cooler Temperature on Receipt _____ °C Custody Seal Y or N Y Received on Ice Y or N Y Samples Intact Y or N Y

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace

Sample Condition Upon Receipt Form

WO#: 35908965

PM: JMW1
CLIENT: PACHIN

Due Date: 10/11/24

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: BP

Verifying pH: _____

Initials: HAMI

Thermometer Used: T414

Date: 10/01/24

Time: 1143

State of Origin _____ For WV projects all containers verified to ≤6 °C

Cooler #1 Temp. °C 15 (Visual) +0.1 (Correction Factor) 1.6 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

- Samples on ice, cooling process has begun

Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other: _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 6476 5646 1809

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody:	Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
	Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Samples Arrived within Hold Time	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments								
Rush Turnaround Requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments								
Sufficient Volume	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments								
Correct Containers Used	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments								
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments								
Sample Labels Match COC (Sample ID, Date/Time of Collection)	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments								
All containers needing acid / base preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<table border="1"> <tr><th colspan="2">Preservation Information</th></tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>	Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information										
Preservative: _____	Date: _____									
Lot / Trace: _____	Time: _____									
Amount added (mL): _____	Initials: _____									
All containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A									
Exceptions Vials Microbiology O&G PFAS										
Headspace in Volatile Vials? (>8mm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A									
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A									

Comments / Resolutions (use back for additional comments):

No client label on container, matched by TA label

Labeled by: BP

Reviewed by: EPAS

Delivered by: EPAS



November 07, 2024

Christina Jungels
Astro-Chem Lab, Inc.
4102 2nd Ave. W.
Williston, ND 58801

RE: Project: Phoenix Operating
Pace Project No.: 10713009

Dear Christina Jungels:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Richardson

Andrea Richardson
andrea.richardson@pacelabs.com
(218)341-6080
Project Manager

Enclosures

cc: Accounts Payable, Astro-Chem Lab, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Phoenix Operating
 Pace Project No.: 10713009

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
 Alabama Certification #: 40770
 Alaska Contaminated Sites Certification #: 17-009
 Alaska DW Certification #: MN00064
 Arizona Certification #: AZ0014
 Arkansas DW Certification #: MN00064
 Arkansas WW Certification #: 88-0680
 California Certification #: 2929
 Colorado Certification #: MN00064
 Connecticut Certification #: PH-0256
 DoD Certification via A2LA #: 2926.01
 EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
 Florida Certification #: E87605
 Georgia Certification #: 959
 GMP+ Certification #: GMP050884
 Hawaii Certification #: MN00064
 Idaho Certification #: MN00064
 Illinois Certification #: 200011
 Indiana Certification #: C-MN-01
 Iowa Certification #: 368
 ISO/IEC 17025 Certification via A2LA #: 2926.01
 Kansas Certification #: E-10167
 Kentucky DW Certification #: 90062
 Kentucky WW Certification #: 90062
 Louisiana DEQ Certification #: AI-03086
 Louisiana DW Certification #: MN00064
 Maine Certification #: MN00064
 Maryland Certification #: 322
 Michigan Certification #: 9909
 Minnesota Certification #: 027-053-137
 Minnesota Dept of Ag Approval: via MN 027-053-137
 Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064
 Missouri Certification #: 10100
 Montana Certification #: CERT0092
 Nebraska Certification #: NE-OS-18-06
 Nevada Certification #: MN00064
 New Hampshire Certification #: 2081
 New Jersey Certification #: MN002
 New York Certification #: 11647
 North Carolina DW Certification #: 27700
 North Carolina WW Certification #: 530
 North Dakota Certification (A2LA) #: R-036
 North Dakota Certification (MN) #: R-036
 Ohio DW Certification #: 41244
 Ohio VAP Certification (1700) #: CL101
 Oklahoma Certification #: 9507
 Oregon Primary Certification #: MN300001
 Oregon Secondary Certification #: MN200001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification #: MN00064
 South Carolina Certification #: 74003001
 Tennessee Certification #: TN02818
 Texas Certification #: T104704192
 Utah Certification #: MN00064
 Vermont Certification #: VT-027053137
 Virginia Certification #: 460163
 Washington Certification #: C486
 West Virginia DEP Certification #: 382
 West Virginia DW Certification #: 9952 C
 Wisconsin Certification #: 999407970
 Wyoming UST Certification via A2LA #: 2926.01
 USDA Permit #: P330-19-00208

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
 Alaska DEC- CS/UST/LUST
 Alabama Certification #: 41320
 California Certification# 3096
 Colorado Certification: FL NELAC Reciprocity
 Connecticut Certification #: PH-0216
 Delaware Certification: FL NELAC Reciprocity
 DoD-ANAB #:ADE-3199
 Florida Certification #: E83079
 Georgia Certification #: 955
 Guam Certification: FL NELAC Reciprocity
 Hawaii Certification: FL NELAC Reciprocity
 Illinois Certification #: 200068
 Indiana Certification: FL NELAC Reciprocity
 Kansas Certification #: E-10383
 Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity
 Louisiana Environmental Certificate #: 05007
 Maine Certification #: FL01264
 Maryland Certification: #346
 Massachusetts Certification #: M-FL1264
 Michigan Certification #: 9911
 Mississippi Certification: FL NELAC Reciprocity
 Missouri Certification #: 236
 Montana Certification #: Cert 0074
 Nebraska Certification: NE-OS-28-14
 Nevada Certification: FL NELAC Reciprocity
 New Hampshire Certification #: 2958
 New Jersey Certification #: FL022
 New York Certification #: 11608
 North Carolina Environmental Certificate #: 667
 North Carolina Certification #: 12710

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Phoenix Operating

Pace Project No.: 10713009

Pace Analytical Services Ormond Beach

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah FL NELAC Reciprocity

Utah

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Phoenix Operating
Pace Project No.: 10713009

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10713009001	Snyder 1-12 #1H	Water	10/21/24 16:00	10/23/24 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Phoenix Operating
Pace Project No.: 10713009

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10713009001	Snyder 1-12 #1H	EPA 6010D	IP	9	PASI-M
		SM 2320B	KEO	3	PASI-M
		SM 2540C	JFP	1	PASI-M
		SM 4500-H+B	KEO	1	PASI-M
		EPA 120.1 Resistivity	SWB	1	PASI-O
		SM 2510	KEO	1	PASI-M
		ASTM D5057	JKH	1	PASI-M
		EPA 300.0	AR3	2	PASI-M
		EPA 353.2	JFP	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis
PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Phoenix Operating
 Pace Project No.: 10713009

Sample: Snyder 1-12 #1H		Lab ID: 10713009001	Collected: 10/21/24 16:00	Received: 10/23/24 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis						
Barium	7870	ug/L	100	10	10/24/24 09:41	10/27/24 14:20	7440-39-3	
Calcium	1250000	ug/L	25000	50	10/24/24 09:41	10/27/24 14:25	7440-70-2	
Chromium	ND	ug/L	100	10	10/24/24 09:41	10/27/24 14:20	7440-47-3	D3
Iron	25500	ug/L	500	10	10/24/24 09:41	10/27/24 14:20	7439-89-6	
Magnesium	1210000	ug/L	5000	10	10/24/24 09:41	10/27/24 14:20	7439-95-4	
Potassium	6480000	ug/L	125000	50	10/24/24 09:41	10/27/24 14:25	7440-09-7	
Sodium	74300000	ug/L	1000000	1000	10/24/24 09:41	10/27/24 14:54	7440-23-5	
Strontium	962000	ug/L	5000	1000	10/24/24 09:41	10/27/24 14:54	7440-24-6	
Zinc	237	ug/L	200	10	10/24/24 09:41	10/27/24 14:20	7440-66-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis						
Alkalinity, Total as CaCO3	108	mg/L	5.0	1		11/01/24 15:43		
Alkalinity, Bicarbonate (CaCO3)	108	mg/L	5.0	1		11/01/24 15:43		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	1		11/01/24 15:43		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis						
Total Dissolved Solids	260000	mg/L	1250	1		10/28/24 15:39		PP
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis						
pH at 25 Degrees C	6.0	Std. Units	0.10	1		11/01/24 13:49		H6
Resistivity		Analytical Method: EPA 120.1 Resistivity Pace Analytical Services - Ormond Beach						
Resistivity	1.9	ohms-cm	0.50	1		10/29/24 13:16		N2
SM2510 Specific Conductance		Analytical Method: SM 2510 Pace Analytical Services - Minneapolis						
Specific Conductance	203000	umhos/cm	5.0	1		11/05/24 12:58		
Specific Gravity		Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis						
Specific Gravity	1.19			1		10/24/24 17:03		N2
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis						
Chloride	120000	mg/L	6000	5000		11/07/24 07:03	16887-00-6	
Sulfate	196	mg/L	120	100		11/06/24 13:16	14808-79-8	
353.2 Nitrate + Nitrite		Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis						
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/31/24 12:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 975588 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D Water
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5099349 Matrix: Water

Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	10/27/24 13:50	
Calcium	ug/L	ND	500	10/27/24 13:50	
Chromium	ug/L	ND	10.0	10/27/24 13:50	
Iron	ug/L	ND	50.0	10/27/24 13:50	
Magnesium	ug/L	ND	500	10/27/24 13:50	
Potassium	ug/L	ND	2500	10/27/24 13:50	
Sodium	ug/L	ND	1000	10/27/24 13:50	
Strontium	ug/L	ND	5.0	10/27/24 13:50	
Zinc	ug/L	ND	20.0	10/27/24 13:50	

LABORATORY CONTROL SAMPLE: 5099350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Calcium	ug/L	20000	19300	96	80-120	
Chromium	ug/L	1000	1020	102	80-120	
Iron	ug/L	20000	20500	102	80-120	
Magnesium	ug/L	20000	19800	99	80-120	
Potassium	ug/L	20000	20300	101	80-120	
Sodium	ug/L	20000	19900	99	80-120	
Strontium	ug/L	1000	1030	103	80-120	
Zinc	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5099351 5099352

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10712883001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Barium	ug/L	216	1000	1000	1240	1230	103	102	75-125	1	20	
Calcium	ug/L	335000	20000	20000	357000	354000	107	95	75-125	1	20	
Chromium	ug/L	42.6	1000	1000	1080	1080	104	103	75-125	1	20	
Iron	ug/L	8610	20000	20000	29300	29200	104	103	75-125	1	20	
Magnesium	ug/L	31100	20000	20000	52000	51500	105	102	75-125	1	20	
Potassium	ug/L	149000	20000	20000	171000	169000	110	102	75-125	1	20	
Sodium	ug/L	61800	20000	20000	82300	81200	102	97	75-125	1	20	
Strontium	ug/L	350	1000	1000	1370	1350	102	100	75-125	1	20	
Zinc	ug/L	1500	1000	1000	2460	2440	97	95	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977280 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10713009001

METHOD BLANK: 5107575 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/01/24 12:27	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/01/24 12:27	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	11/01/24 12:27	

LABORATORY CONTROL SAMPLE & LCSD: 5107576

5107577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	43.0	42.3	108	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5107578

5107579

Parameter	Units	10712881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	168	40	40	211	214	107	116	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5107580

5107581

Parameter	Units	10712881002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	227	40	40	273	270	113	107	80-120	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 976301 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5102892 Matrix: Water

Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10/28/24 15:38	

LABORATORY CONTROL SAMPLE: 5102893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 5102894

Parameter	Units	10712612006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	101	101	0	10	

SAMPLE DUPLICATE: 5102895

Parameter	Units	10712842001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	20300	18000	12	10	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977285 Analysis Method: SM 4500-H+B
 QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10713009001

LABORATORY CONTROL SAMPLE: 5107588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.1	102	98-102	H6

SAMPLE DUPLICATE: 5107589

Parameter	Units	10712469003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.2	6.2	1	3	H6

SAMPLE DUPLICATE: 5107590

Parameter	Units	10712469004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	7.0	1	3	H6

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 1051690	Analysis Method: EPA 120.1 Resistivity
QC Batch Method: EPA 120.1 Resistivity	Analysis Description: Resistivity
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 10713009001

SAMPLE DUPLICATE: 5781375

Parameter	Units	10713018001 Result	Dup Result	RPD	Max RPD	Qualifiers
Resistivity	ohms-cm	1.9	1.9	0	20	N2

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977841 Analysis Method: SM 2510
 QC Batch Method: SM 2510 Analysis Description: SM2510 Specific Conductance
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10713009001

METHOD BLANK: 5110532 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	11/05/24 12:45	

LABORATORY CONTROL SAMPLE: 5110534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	904	90	90-110	

SAMPLE DUPLICATE: 5110535

Parameter	Units	10712921001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	630	627	0	20	

SAMPLE DUPLICATE: 5110538

Parameter	Units	10712960001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	450	447	0	20	

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 975834	Analysis Method: ASTM D5057
QC Batch Method: ASTM D5057	Analysis Description: Spec.Gravity/ASTM D5057
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

SAMPLE DUPLICATE: 5100343

Parameter	Units	10713018001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity		1.19	1.19	0	20	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 978010 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10713009001

METHOD BLANK: 5111297 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	11/06/24 09:30	
Sulfate	mg/L	ND	1.2	11/06/24 09:30	

LABORATORY CONTROL SAMPLE: 5111298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5111299 5111300

Parameter	Units	10712898005		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.								
Chloride	mg/L	<445 ug/L	50	45.4	45.6	90	90	80-120	0	20	
Sulfate	mg/L	166000 ug/L	250	426	426	104	104	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5111301 5111302

Parameter	Units	10713075001		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.								
Chloride	mg/L	205	250	410	410	82	82	80-120	0	20	
Sulfate	mg/L	173	250	388	388	86	86	80-120	0	20	

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977090 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5106369 Matrix: Water

Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/31/24 11:58	

LABORATORY CONTROL SAMPLE: 5106370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5106371 5106372

Parameter	Units	10712898010 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits			
Nitrogen, NO2 plus NO3	mg/L	<33.7 ug/L	1	1	1.2	1.2	112	112	90-110	0	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5106373 5106374

Parameter	Units	10712921001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits			
Nitrogen, NO2 plus NO3	mg/L	19.0	10	10	29.1	28.3	101	93	90-110	3	20	

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QUALIFIERS

Project: Phoenix Operating
Pace Project No.: 10713009

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
H6 Analysis initiated outside of the 15 minute EPA required holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
PP The mass of dried residue obtained did not meet the test method requirements based on volume used.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Phoenix Operating
Pace Project No.: 10713009

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10713009001	Snyder 1-12 #1H	EPA 3010A	975588	EPA 6010D	975895
10713009001	Snyder 1-12 #1H	SM 2320B	977280		
10713009001	Snyder 1-12 #1H	SM 2540C	976301		
10713009001	Snyder 1-12 #1H	SM 4500-H+B	977285		
10713009001	Snyder 1-12 #1H	EPA 120.1 Resistivity	1051690		
10713009001	Snyder 1-12 #1H	SM 2510	977841		
10713009001	Snyder 1-12 #1H	ASTM D5057	975834		
10713009001	Snyder 1-12 #1H	EPA 300.0	978010		
10713009001	Snyder 1-12 #1H	EPA 353.2	977090		

REPORT OF LABORATORY ANALYSIS

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ASTRO-CHEM LAB, INC.
 4102 2nd Ave. W.
 P. O. Box 972
 Williston, ND 58801
 701-572-7355
 www.astrochemlab.com

Client: *Phoenix Operating*
 Project: *Snyder 1-12 #1H*
 Project Manager: *Steve Phipps*

Telephone No. *406-853-5091*
 Fax No.

Method of Shipment
PEDEX OVERNIGHT

Special Detection Limit/Reporting

Container Preservative **

1 U U 2
 **Preservative Types: (1) nitric acid (2) sulfuric acid (3) hydrochloric acid (4) sodium hydroxide (5) zinc acetate (6) methanol (7) sodium bisulfate (8) sodium thiosulfate (9) hexane (A) ascorbic acid (B) ammonium sulfate (C) ammonium hydroxide (D) TSP (U) unpreserved (P) Other:

ACL "Oilfield Water"

Matrix

Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Sampling Date	Sampling Time	Ca, Mg, Na, Fe, Cr, Ba, K, Sr, Zn	Chloride, Sulfate, pH, Conductivity, Resistivity, Total Dissolved Solids	Specific Gravity, Alkalinity (Carbonate & Bicarbonate)	Nitrate+Nitrite	Turn Around Time	REMARKS:
			Soil	Water	Air	Other								
<i>Snyder 1-12 #1H</i>	<i>4030</i>	<i>4</i>	<input checked="" type="checkbox"/>			<i>10/21/24</i>	<i>1600</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>(X)</i>	



astrochem@midconetwork.com
 www.astrochemlab.com

Sample Received Intact: Yes No
 Relinquished by sampler: *Mike Andrews*
 Relinquished by: *Brenda Benth*
 Date: *10/21/24* Time: *1300*
 Received by (Signature): *Brenda Benth*
 Received by: *Brenda Benth*
 Date: *10/22/24* Time: *2:00pm*
 Received by laboratory: *Brenda Benth*
 Date: *10/23/24* Time: *9:45*

Lab Work No.

Methods for Analysis (ACL OIL WATER GUIDELINES)

Alkalinity (2320B)

Alkalinity, Bicarbonate (CaCO₃)

Alkalinity, Carbonate (CaCO₃)

Alkalinity, Total as CaCO₃

Nitrate + Nitrite (353.2)

Nitrogen, NO₂ plus NO₃

pH, Electrometric (4500H+B)

8 Metals-Barium, Chromium, Iron, Zinc, Calcium, Magnesium, Sodium, Potassium (6010D MET ICP)

Chloride & Sulfate (300.0 IC Anions)

Resistivity (D1125-14)

Specific Conductance (SM2510)

Specific Gravity (ASTM D5057)

Strontium (6020B MET ICPMS)

Total Dissolved Solids (2540C)

ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: Astro - Chem Lab PROJECT #: _____

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

WO#: 10713009

PM: AR4 Due Date: 11/06/24

CLIENT: 11 Astro Che

TRACKING NUMBER: 7792 4238 3190 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A

Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet

Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) T7 (0042) T8 (0775) T9 (0727) 01339252 (1710) Melted None

Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Correction Factor: <u>0.2</u> Cooler Temp Read w/Temp Blank: <u>1.4</u> °C	Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: <u>1.2</u> °C	
<i>NOTE: Temp should be above freezing to 6°C.</i>	
<input type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container	

USDA Regulated Soil: <input checked="" type="checkbox"/> N/A (Water Sample/Other (describe): _____)	Initials & Date of Person Examining Contents: <u>AM 10/23/24</u>
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input type="checkbox"/> NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input type="checkbox"/> NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): <input type="checkbox"/> DULUTH <input type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
– Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Sample #: <u>001/11 001/11</u> <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 25%;">Residual Chlorine</th> <th style="width: 25%;">0-6 Roll</th> <th style="width: 25%;">0-6 Strip</th> <th style="width: 25%;">0-14 Strip</th> </tr> <tr> <td></td> <td style="text-align: center;"><u>205294</u></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip		<u>205294</u>		
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
	<u>205294</u>											
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (If purchased): _____								

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Anchea Richardson Date: 10/24/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMW Line: 3

Internal Transfer Chain of Custody



Rush Multiplier X
 Samples Pre-Logged into eCOC
 State Of Origin: ND
 Cert. Needed: Yes No
 Workorder Name: Phoenix Operating
 Owner Received Date: 10/23/2024 Results Requested By: 11/6/2024
 Report To: Subcontract To

Andrea Richardson
 Pace Analytical Minnesota
 1700 Elm Street
 Minneapolis, MN 55414
 Phone (218)341-6080

Pace Analytical Ormond Beach
 8 East Tower Circle
 Ormond Beach, FL 32174
 Phone (386)672-5668

WO#: 35914692



Resistivity

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Resistivity	LAB USE ONLY
						BP2U2/2	1		
1	Snyder 1-12 #1H	PS	10/21/2024 16:00	10713009001	Water			X	
2									
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N	Comments
1	Nick V Pace	10/24/24 1440	AUG 1K	10-25-24 1200		Y	Y	N	
2									
3									

Cooler Temperature on Receipt 4.6 °C Custody Seal Y N Received on Ice Y N Samples Intact Y N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace

Sample Condition Upon Receipt Form (SCUR)

WO#: **35914692**

Project #
 Project Manager:
 Client:

PM: JMW1 Due Date: 11/06/24
 CLIENT: PACMIN

Date and Initials of person:
 Examining contents: RPD
 Verifying pH: _____

Thermometer Used: T-409 Date: 10-25-24 Time: 1223 Initials: APES

State of Origin: _____ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. °C 4.6 (Visual) 0 (Correction Factor) 4.6 (Actual)
 Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 4243 5575 7160

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other

Samples shorted to lab: Yes No (if yes, complete the following)

Shorted Date: _____

Bottle Quantity / Type: _____

Shorted Time: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Rush Turnaround Requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Sample Labels Match COC (Sample ID, Date/Time of Collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
All containers needing acid / base preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<table border="1"> <tr> <th colspan="2">Preservation Information</th> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information											
Preservative: _____	Date: _____										
Lot / Trace: _____	Time: _____										
Amount added (mL): _____	Initials: _____										
All containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A										
Exceptions: Vials, Microbiology, O&G, PFAS											
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A										
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A										

Comments / Resolutions (use back for additional comments): NO client label on container

Labeled by: RPD

Reviewed by: EARL

Delivered by: EARL

Appendix VII
OCCUPIED STRUCTURE NOTICE

KATANA 1 SWD

134814851 16

ATTN: Regulatory
4643 S. Ulster Street Ste. 1510
DENVER, CO 80237

001348148500011

BASIN ELECTRIC POWER COOPERATIVE
1717 East Interstate Avenue
Bismarck, ND 58503



USPS CERTIFIED MAIL



9214 8901 4298 0454 2602 28

See Important Information Enclosed



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

OCCUPIED STRUCTURE NOTICE

February 27, 2026

To: BASIN ELECTRIC POWER COOPERATIVE
1717 East Interstate Avenue
Bismarck, ND 58503

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

Re: Proposed Private SWD& Oil Well Pad– KATANA Wells
SENE, Section 6, Township 28 North, Range 57 East, Roosevelt County, MT

Dear Owner:

This Notice serves to provide notice that Phoenix Operating LLC (“Phoenix”) intends to or has filed applications for permits to drill wells, being the Proposed Wells which will be drilled at a surface location referenced above and as shown on the enclosed map, which are proposed near your property.

As the owner of an “occupied structure” this *Notice* serves to provide you reasonable notice of Phoenix’s intent to file an application for permits to drill the Proposed Wells as owner of record of an occupied structure within 1,320 feet of the Proposed Wells as required by Montana Administrative Rule 36.22.620 – *Notification of Application for Permit to Drill*, a copy of which is attached hereto. Pursuant to this regulation, you are advised that:

- A. Phoenix’s application to drill the Proposed Wells is eligible for administrative approval by the Montana Board of Oil and Gas Conservation (“Board”) unless a demand for an opportunity to be heard is first filed with the Board within 14 days of an owner having received the notice.
- B. Phoenix must file proof of the notice required by Mont.Admin.R. 36.22.620 with its application to the Board.
- C. The owner may waive, in writing, their opportunity to request a hearing any time within the 14-day period. If waived, the application will be immediately eligible for administrative approval.

Phoenix is willing to meet with you to discuss any concerns you may have with our upcoming operations. Additionally, we will continue to communicate to you any updates on our



projects. For questions or concerns about this well site or any other surface issues, please contact me at 701-770-8484. Thank you for your cooperation in this matter.

Respectfully,

Ashleigh Borud

Ashleigh Borud
Surface Land Lead
aborud@phoenixenergy.com

Documents Enclosed

- Montana Administrative Rule 36.22.620
- Map Showing Radius from the Proposed Wells

WAIVER

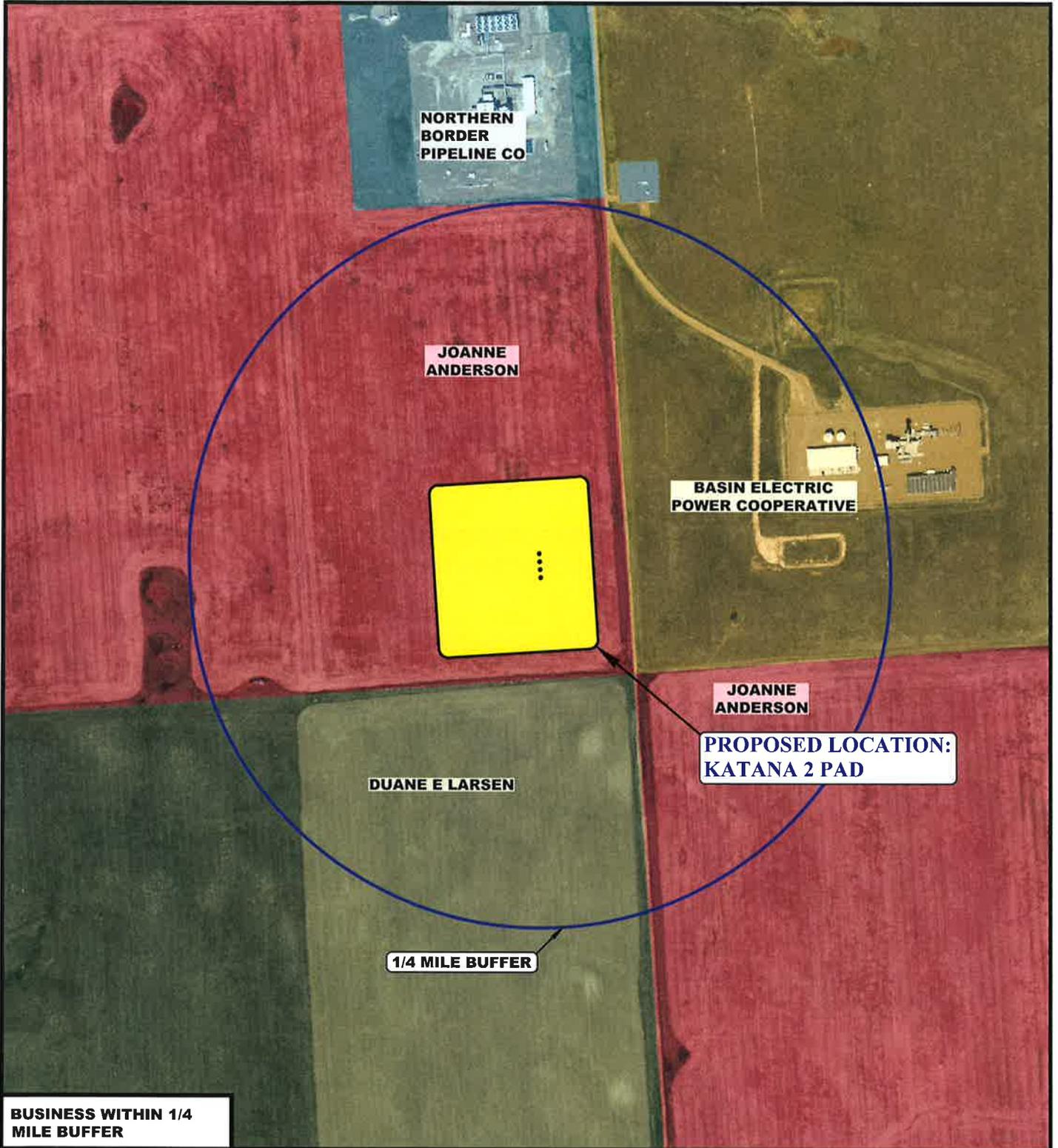
Pursuant to Montana Administrative Rule 36.22.620, I waive, in writing, my opportunity to request a hearing any time within the 14-day period after receiving this Notice. I understand that if waived, Phoenix's application for permits to drill will be immediately eligible for administrative approval.

_____ YES _____ NO.

BASIN ELECTRIC POWER COOPERATIVE

BY: _____

ITS: _____



BUSINESS WITHIN 1/4 MILE BUFFER

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



PHOENIX OPERATING LLC

KATANA 2 PAD
 SE 1/4 NE 1/4, SECTION 6, T28N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	E.S.	09-17-25	SCALE
DRAWN BY	Q.S.J.	01-15-26	1" = 500'

AERIAL MAP

TOPO 1

ARM 36.22.620

36.22.620. NOTIFICATION OF APPLICATION FOR PERMIT TO DRILL

Effective: January 7, 2017

(1) For the purposes of this rule, "occupied structure" means any building suitable for human occupancy or for carrying on business, including a residence, school, office, or hospital, but not including outbuildings such as, but not limited to sheds, barns, or garages.

(2) An applicant for a permit to drill a new well under ARM 36.22.601 must provide reasonable notice of the intent to file an application to all owners of record of an occupied structure within 1,320 feet of the proposed well.

(a) The notice must advise each owner that the application is eligible for administrative approval unless a demand for an opportunity to be heard is filed with the board within 14 days of an owner having received the notice.

(b) The applicant must file proof of the notice required by this rule with its application to the board.

(c) The owner may waive, in writing, their opportunity to request a hearing any time within the 14-day period. If waived, the application will be immediately eligible for administrative approval.

(3) The staff of the board shall refer an application for permit to drill to the board for notice and public hearing at the next regularly scheduled hearing if an owner of an occupied structure, as to any application for permit to drill for which the owner received notice, files a demand for an opportunity to be heard concerning the application in the form set forth in (5).

(4) In those instances where such requests for a permit to drill have been the subject of notice and public hearing, the board shall, after such hearing, either:

(a) enter its order granting such permit under such conditions as the board shall find proper and necessary; or

(b) enter its order denying the application for the permit.

(5) A demand for opportunity to be heard concerning an application for permit to drill for which notice is required must:

(a) be in writing; and

(b) set forth the name, address, and telephone number of each party making the demand, and demonstrate standing to demand an opportunity to be heard by providing a notarized, written statement declaring ownership of the occupied structure within 1,320 feet from the proposed well, which statement must include the owner's signature, the date of signature, and the declaration "I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct"; and

(c) set forth the specific reasons why the party requests a hearing regarding the issuance of the proposed drilling permit; and

(d) be received by the board no later than 14 days after the date the notice is received by the owner. Service of such demand may be made on the board personally, by mail, by e-mail, or by FAX transmission; and

(e) be simultaneously served upon the applicant for the permit by written copy mailed or FAX transmitted to the address or number set forth in the published notice. A certificate of such service must accompany the demand as filed with the board.

Credits

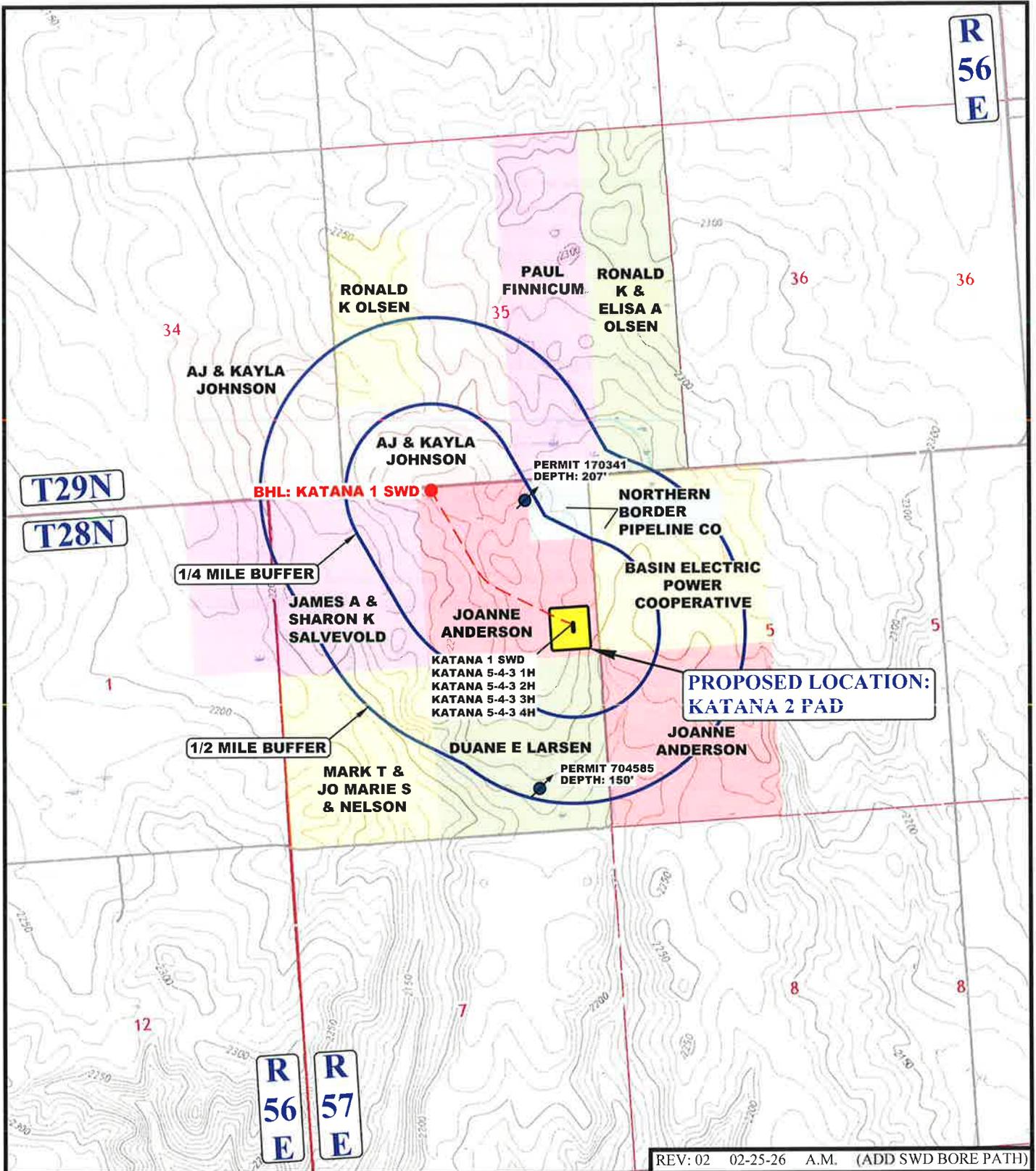
Authorizing Statute(s): 82-11-111, MCA

Implementing Statute(s): 82-11-122, 82-11-127, 82-11-134, 82-11-141, MCA

History: NEW, 2017 MAR p. 97, Eff. 1/7/17.

Current through Issue 24 of the 2025 Montana Administrative Register dated December 19, 2025. Some sections may be more current; see credits for details.

Mont.Admin.R. 36.22.620, MT ADC 36.22.620



REV: 02 02-25-26 A.M. (ADD SWD BORE PATH)

LEGEND:

WATER WELLS



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



PHOENIX OPERATING LLC

KATANA 2 PAD
 SE 1/4 NE 1/4, SECTION 6, T28N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	E.S.	09-17-25	SCALE
DRAWN BY	D.J.G.	09-19-25	1 : 24,000
WELL PROXIMITY MAP			TOPO C

Appendix VIII
AFFIDAVIT OF MAILING
KATANA 1 SWD

AFFIDAVIT OF MAILING

STATE OF COLORADO §
 §
COUNTY OF DENVER §

The undersigned, Paula Frisbee, of lawful age, first duly sworn on her oath states that she is a duly authorized agent of Phoenix Operating LLC, does hereby certify that she has sent (via certified mail) a Notice of Application for Fluid Injection to the surface and lease owners within a radius of ¼ mile from the location of proposed KATANA 1 SWD well, SENE of Section 6, Township 28 North, Range 57 East, Roosevelt County, MT.

The following contains the address and legal description of the land ownership for surface and lease owners.

Surface Owner:

AJ & KAYLA JOHNSON
2501 HJ 2 Drive
Froid, MT 59226

PAUL FINNICUM
P.O. Box 89
Culbertson, MT 59218

RONALD AND ELISA OLSEN
1495 RO 2 Drive
Culbertson, MT 59218

JAMES A & SHARON K SALVEVOLD
P.O. Box 417
Culbertson, MT 59218

JOANNE ANDERSON
2913 Custer Avenue
Billings, MT 59102

DUANE LARSEN
1989 Road 2054
Culbertson, MT 59218

BASIN ELECTRIC POWER COOPERATIVE
1717 East Interstate Avenue
Bismarck, ND 58503

NORTHERN BORDER PIPELINE CO
200 Highway 14 Bypass
Brookings, SD 57006

Lease Owner:

Alice M. Izor
750 Hawthorne Avenue
El Cajon, CA 92020

The Thorson Family Trust
440 2nd Avenue North
Glasgow, MT 59230

Jeffery A. Christoffersen
1946 Road 2051
Froid, MT 59226

Legal Description:

SE Sec. 34 & SWSW, SESW, NESW, SENW
Sec. 35 T28N, R56E
Roosevelt County, MT

NWNE, SWNE, NWSE, SWSE Sec. 35
T28N, R56E
Roosevelt County, MT

NENE, SENE, NESE, SESE Sec. 3
T28N, R57E
Roosevelt County, MT

NENE, SENE Sec. 1, T28N, R56E
NW Sec. 6, T28N, R57E
Roosevelt County, MT

NE Sec. 6 & SE Sec. 5
T28N, R57E
Roosevelt County, MT

SE Sec. 6
T28N, R57E
Roosevelt County, MT

NW Sec. 5
T28N, R57E
Roosevelt County, MT

NENE Sec. 6
T28N, R57E
Roosevelt County, MT

Legal Description:

E2 Sec. 35
T29N, R56E
Roosevelt County, MT

SE Sec. 6
T28N, R57E
Roosevelt County, MT

NW Sec. 5
T28N, R57E
Roosevelt County, MT

Lease Owner:

Kraken Oil & Gas, LLC
945 Bunker Hill Road, Suite 1200
Houston, TX 77024

Steven Jay Hansen
26117 La Vita Street
Valencia, CA 91355

Wheatland Oil, Inc.
P.O. Box 1032
Enid, OK 73702

Dorothy O. Nelson, a/k/a Dorothy Slein
804 4th Street West
Williston, ND 58801

Merri Hansen Tersolo
7101 Manzanita Street
Carlsbad, CA 92011

The Estate of Lois Roberta Bailey
P.O. Box 2385
Great Falls, MT 59403

Neva Thorson
136 Foothill Drive #23
Vacaville, CA 95688

Legal Description:

SW, NW Sec. 5
T28N, R57E
Roosevelt County, MT

E2 Sec. 35
T29N, R56E
Roosevelt County, MT

SW, NW Sec. 5
T28N, R57E
Roosevelt County, MT

Lot 1 & 2, S2NE
T28N, R57E
Roosevelt County, MT

E2 Sec. 35
T29N, R56E
Roosevelt County, MT

SWNW, NWSW Sec. 35
T29N, R56E
Roosevelt County, MT

SE Sec. 6
T28N, R57E
Roosevelt County, MT

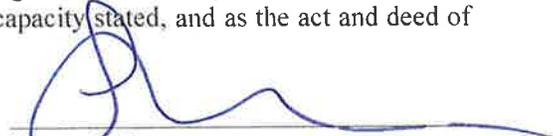
By: 
Paula Frisbee, Director of Land and Administration
Phoenix Operating LLC

Dated: 02.27.2026

ACKNOWLEDGMENT

STATE OF COLORADO §
 §
COUNTY OF DENVER §

On this 27th day of February, 2026 before me, a Notary Public, personally appeared Paula Frisbee, Director of Land and Administration known to me to be the person whose name is subscribed to the foregoing instrument as an agent of Phoenix Operating LLC and acknowledged to me that they executed the same as her free act and deed for the purposes therein expressed, in the capacity stated, and as the act and deed of said company.


Notary Public

(Seal)

CALINA BOWMAN Notary Public State of Colorado Notary ID # 20244011315 My Commission Expires 03-20-2028

My Commission Expires: 3/20/2028

Appendix IX
LANDOWNER NOTIFICATION LETTERS
KATANA 1 SWD

Examples of Landowner Notification Letters (Surface & Lease Owners)



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: Example Surface Owner
P.O. Box 796
Culbertson, MT 59218

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

Re: Proposed Private Saltwater Disposal Well – KATANA 1 SWD
Surface Hole: 2232' FNL & 379' FEL, SENE
Section 6, Township 28 North, Range 57 East, Roosevelt County, MT
Bottom Hole: 49' FNL & 2421' FEL, Lot 2
Section 6, Township 28 North, Range 57 East, Roosevelt County, MT

This letter is to advise you that Phoenix Operating LLC (Phoenix) plans to drill and complete the subject wells into a Class II saltwater disposal well. Water will be injected into the Dakota group for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Phoenix is required to give notice that it has made an application to perform this work to each surface owner within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application. For the hearing date, please contact the MBOGC by phone at (406) 656-0040, or visit their website at <https://dnrc.mt.gov/BOGC/>. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing to the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all of your communication regarding this proposed project, including more information about the upcoming hearing, to Mr. John Gizicki with the MBOGC at (406) 656-0040 or to me with Phoenix Operating LLC at (701) 770-8484.

Respectfully,

Ashleigh Borud

Ashleigh Borud
Surface Land Lead – Firebird Services, LLC
aborud@phoenixenergy.com



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: Lease Owner
Address
City, State Zip

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

Re: Proposed Private Saltwater Disposal Well – KATANA 1 SWD
Surface Hole: 2232' FNL & 379' FEL, SENE
Section 6, Township 28 North, Range 57 East, Roosevelt County, MT
Bottom Hole: 49' FNL & 2421' FEL, Lot 2
Section 6, Township 28 North, Range 57 East, Roosevelt County, MT

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Respectfully,

Ashleigh Borud

Ashleigh Borud
Surface Land Lead – Firebird Services, LLC
aborud@phoenixenergy.com



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: Alice M. Izor
750 Hawthorne Avenue
El Cajon, CA 92020

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

Re: Proposed Private Saltwater Disposal Well – KATANA 1 SWD
Surface Hole: 2232' FNL & 379' FEL, SENE
Section 6, Township 28 North, Range 57 East, Roosevelt County, MT
Bottom Hole: 49' FNL & 2421' FEL, Lot 2
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Written comments or objections may be submitted prior to the hearing to the following address:

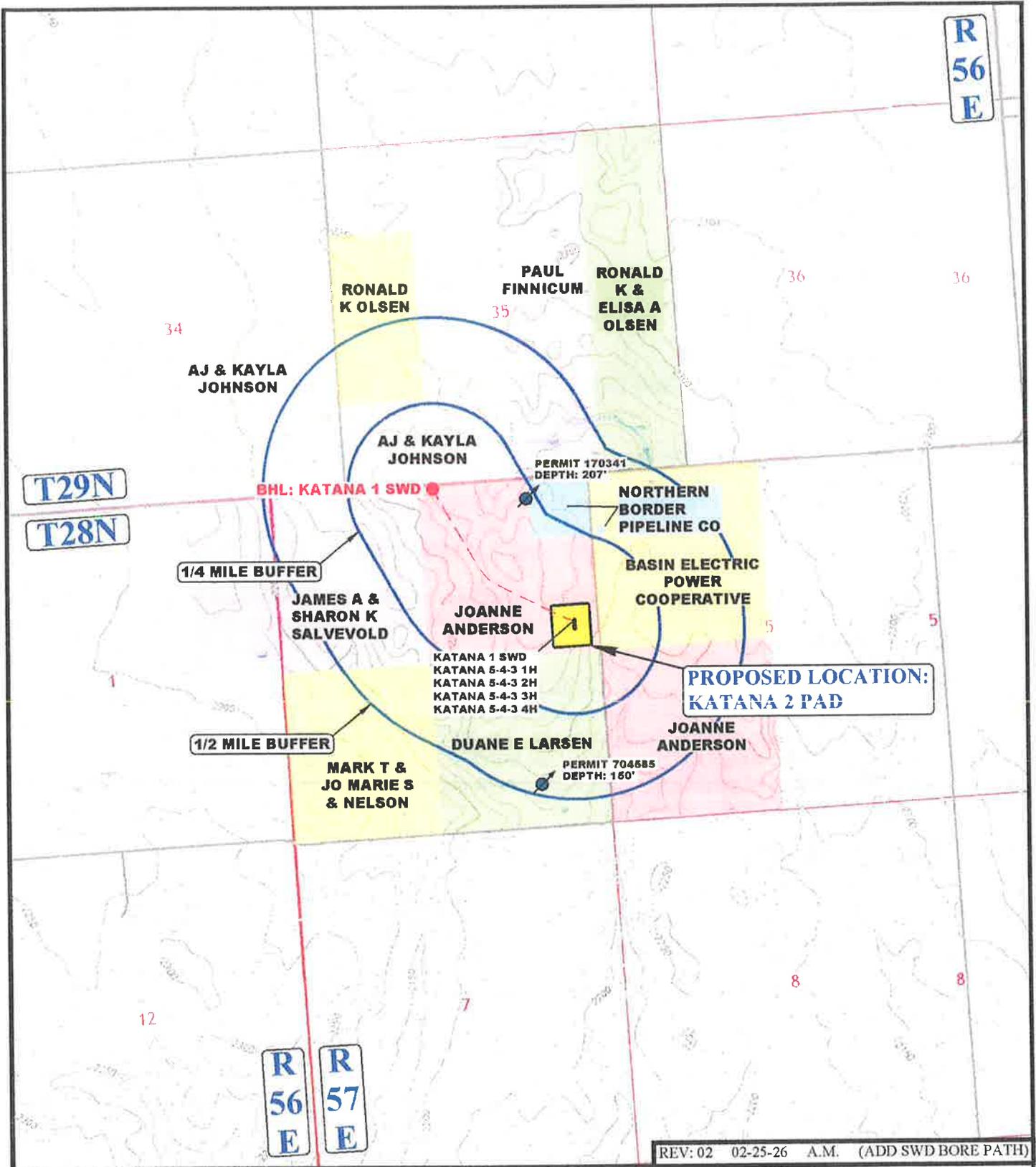
Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all of your communication regarding this proposed project, including more information about the upcoming hearing, to Mr. John Gizicki with the MBOGC at (406) 656-0040 or to me with Phoenix Operating LLC at (855) 565-4244 or ownerinquiry@phoenixenergy.com.

Respectfully,

Paula Frisbee

Paula Frisbee
Director of Land and Administration



REV: 02 02-25-26 A.M. (ADD SWD BORE PATH)

LEGEND:

 WATER WELLS



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



PHOENIX OPERATING LLC

KATANA 2 PAD
 SE 1/4 NE 1/4, SECTION 6, T28N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	E.S.	09-17-25	SCALE
DRAWN BY	D.J.G.	09-19-25	1 : 24,000
WELL PROXIMITY MAP			TOPO C