Wasserhund Inc.
PO Box 2073
575-369-9909

ANNUAL CLASS III WELL REPORT FOR 2024

Wasserhund Inc.

Buckeye Brine Station

OCD Permit BW-04

API No. 30-025-26883 Eidson #1

Unit Letter M-Section 31-Ts 16s – R35e

Mr. Jon Gandy Jon Gandy Date: 6/1/25

Summary of Operations: The Wasserhund brine well BW-04 continues to produce quality brine for drilling operations in the area, but at reduced total production, possibly to recent competition, and or reduced drilling in the immediate area.

Wasserhund has installed new dedicated, calibrated meters for both fresh and brine production and now has the off-site capability to monitor pressures, water levels, pump control actions etc.

Production Volumes and Ratio. Injection production/ comparison chart of injected water to produced water attached herein. Ratio of FW/BW is within permit requirements of 90%-110% as required in permit condition 2B.2.b.

In addition, the cone model is included to show the current roof top radius and the D/H calculation.

Injection Pressure Data*:* 260-280 psig Pressure limit of 315 # is set for this well when operating in the open-hole configuration. This limit protects the formation from premature fracturing during normal operations and testing.

Chemical Analysis: Included in this annual report are the analysis for the brine well and the on-site Monitor well MW-1. **See Appendix B.**

Mechanical Integrity: A casing test was conducted in March of 2022. Chart is located in the OCD file.

Deviations from Normal Production Methods: Normal Flow per OCD.

Leak and Spill Reports: None in 2024.

Area of Review Update Summary: Permit condition 3G. "AREA OF REVIEW (AOR): The Permittee shall report within 72 hours of discovery any new wells, conduits, or any other device that penetrates or may penetrate the injection zone within a 1-mile radius from its Class III well. OCD shall be notified within 24 hours of having knowledge of any wells lacking cement within the cavern interval within a 1/2-mile radius from the Class III well.

Wasserhund's consultant, Price LLC, made a cursory review within one (1) mile and ½ mile radius of the BW-04 Brine Well located in M-31-16s-35e using NMOCD's GIS map tool and OCD well file records. There is a Total of 38 wells located within the BW-04 One Mile AOR and Six (6) wells located in the ½ Mile AOR. **See Appendix C for AOR Maps.**

There currently are no oil and gas production, nor any disposal or injection wells that inject above or within the Salado Salt formation in this area, notwithstanding the BW-04 Brine well. The oil and gas production, and or associated SWD's or injectors are all completed below the Salado Salt section that BW-04 is producing out of.

Therefore, all the wells listed are assumed to be completed through the BW-04 adjacent Salado injection zone formation.

The Six wells within the ½ mile AOR are as follows:

1. API # 30-025-31621. UL L-31-16s-35e. Operator BTA.
2. API# 30-025-35678. UL A (L1)- 1-17s-34e. Operator Unitex Oil & Gas LLC.
3. API # 30-025-37993 UL J-36-16S-34E. Operator BREITBURN OPERATING LP.
4. API#. 30-025-37018 UL O-36-16s-34E Operator BTA OIL PRODUCERS, LLC.
5. API # 30-025-25170. UL O-36-16s-34E. Operator Unitex Oil & Gas LLC.
6. API # 30-025-25146. UL P-36-16s-34E. Operator Redwood Operating – was Lime Rock Resources, No Change of operator found in file. (P&A)

Investigation:

All wells located in the ½ mile AOR was re-investigated due to the current permit conditions that reads as follows:

"OCD shall be notified within 24 hours of having knowledge of any wells lacking cement within the cavern interval within a 1/2-mile radius from the Class III well."

Special Note: It's Wasserhund's understanding that the new anticipated permit will have this requirement. Wasserhund wants to make sure this requirement will be complied to. In the past Wasserhund had generally always complied by the adhearing to the actual requirement found in the WQCC regulations, pertaining to the Area of Review. This requirement was always based on a quarter mile (1/4), not ½ mile. It appears there is a conflict between the current WQCC regulations and the permit condition of ½ mile.

Wasserhund's consultant Price LLC , has on a number of occasions discussed this with the OCD's permit writers and there has been a general understanding that as long as we abide by the rule and there is no major threat to the environment, this would not be an issue.

The six wells listed above were reviewed by finding, downloading and reviewing the Wells C-105s (Well Completion Reports) and some P&A reports C-103s. These reports are attached in **Appendix D** for reference.

Findings:

Wells (1-4) listed above, all showed the operator had installed casing and had performed cement operations. Some of the reports indicated that cement was circulated to surface, while others did not specifically indicate circulation to surface. All of these appeared to have been approved by OCD.

Conclusion: **No corrective actions required.**

Findings:

The well listed above as #5, appears to have originally been completed without cement behind some of the casing that penetrates the injection zone, i.e. salt zone. Price LLC could not determine precisely if this well is still completed this way. The OCD originally approved the construction of this well.

The well record appears to indicate OCD has run Bradenhead surveys every year for this well with no issues noted. It also appears this well has been TA'd for some time as no C-103 plugging record was found and well has not produced since 2015.

Conclusion:

Wasserhund Inc has no indication of any issue arising from this well, and the distance, i.e. 2200 feet, from the brine well would logically indicate there would continue to be no issues and no corrective actions required.

Findings:

The well listed as #6 above may appear to have originally been completed without cement behind some of the casing that penetrates the injection zone, i.e. salt zone. The construction of this well was approved by OCD.

This well was P&A and OCD gave final Approval. **See Appendix D.**

Conclusion:

Wasserhund Inc has no indication of any issue arising from this well and the fact OCD required additional cement work to protect fresh water, and final P&A was approved by OCD. There is no corrective action required.

Subsidence/Cavern Volumes/Geometric Measurements

SOLUTION CAVERN MONITORING PROGRAM: No subsidence monitors were at site for the year 2023, received an extension due to COVID-19. Wasserhund Inc, has installed subsidence monitors in the first quarter of 2024. A full report is included in this 2024 annual report. **See Appendix E.**

Solution Cavern Characterization Plan:

Since the BW-04 well never had any logs run, a well log was obtained from a nearby well

and annotated to reflect the geophysical characterization of the area lithology. In addition, a well bore schematic is included for reference and a mass balance was calculated for the 2024 year.

The Solution Cavern Characterization Plan is defined by using the cone method ("Worst Case") to determine the maximum cavern diameter and calculating a volume of the cavern. A mass balance calculation is performed to verify the approximate cavern volumetric size from actual measured volumes of brine produced over the life of the well.

The two are then compared to determine if the volumes are within the OCD allowed variance of 10% variance. The 2024 results are within the limit. **See Appendix F for attachments.**

The plan also includes the critical d/h calculation, which is ***.159 for the 2024***-year report, which is well under the limit of .50 and the current radius of the brine well roof top is approximately 333 ft.

Special Note: New permit conditions now require that the fresh water be injected down the tubing (Normal Flow) in order to prevent cavern enlargement at the top of the cavern. Currently there is no method or model developed to allow for the actual reduction in cavern-enlargement at the top of the cavern. Therefore, the cavern top radius is actually less than what is calculated. This provides an additional safety factor for cavern collapse issues.

Summary of Activities: Normal operations with reduced sales.

Annual Certification: By signing the cover sheet the operator hereby certifies this condition of the permit.

Groundwater Monitoring: Currently have a fresh water supply well in close proximity to brine well. The water from this well has been tested and no significant issues have been noted.

Special Note: A new groundwater monitor well was completed in the first quarter of 2024 and sampled pursuant to the BW-04 permit conditions. Results can be observed in **Appendix B.** No significant issues were noted, manganese slightly exceeding the WQCC GW Standards. A full report was submitted to OCD via electronic reporting. See **Appendix G for report.**

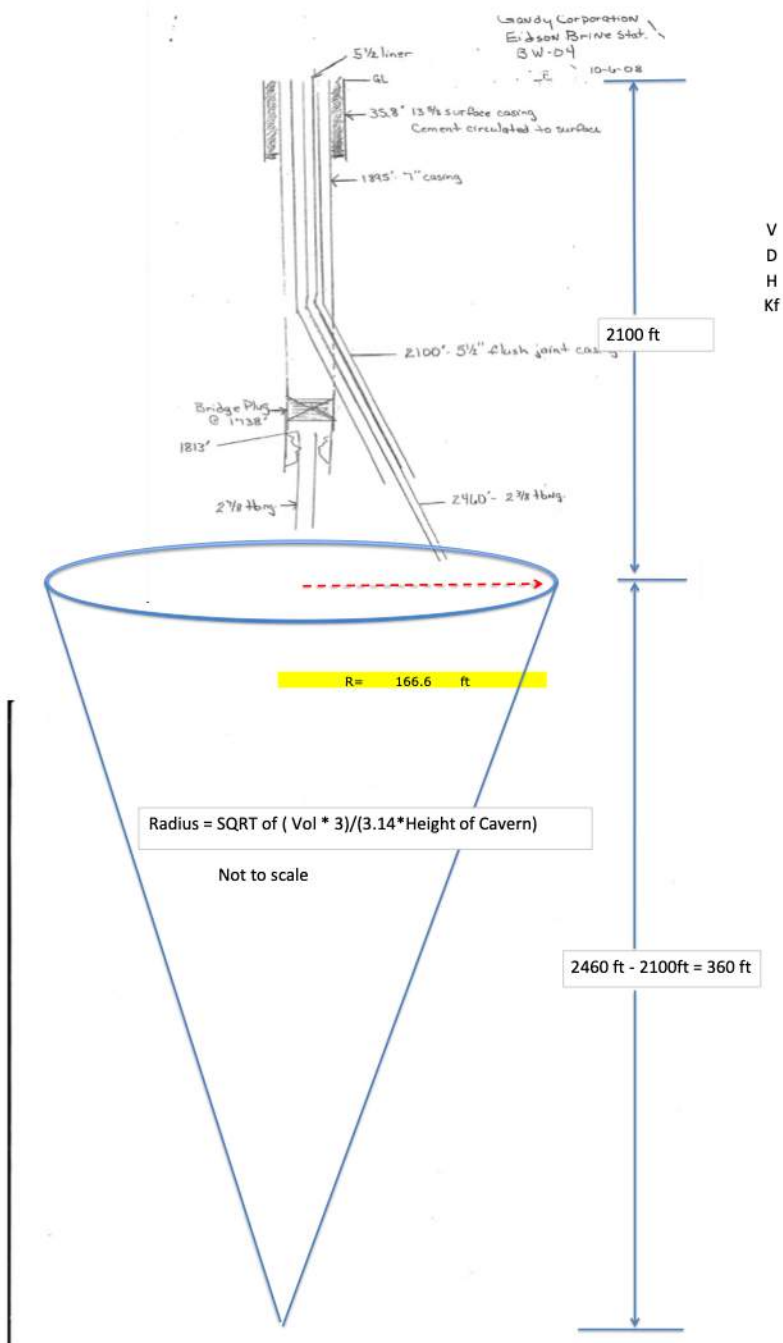
Annual Reporting: Filed in new OCD electronic system. OCD has informed Wasserhund that paper copies are generally not accepted any more.

2019 Current Permit can be found in Appendix "H".

Appendix "A"

Production Volumes and Ratio.

	Wasserhund Inc		OGRID # 8426	API#- 30-025-26883			BW-04		
		Lat	N 32.8731						
		Lon	W -103.5051						
		Legal	M-31-16s-35e						
		Footage	567 FSL	162 FWL					
	2024	**Wasserhund Inc OCD BW-04 Annual Production Data & Comparision Chart**							
							Permit condition 2B.2.b 90%-110%		
			Fresh IN		Brine Out		Ratio FW/BW		Injection pressures range from 260-280 psig- Noted if out of bounds
	Jan		14325.11		13022.00		110.01%		260-280 psig
	Feb		11091.95		10085.00		109.98%		260-280 psig
	Mar		6177.00		6062.00		101.90%		260-280 psig
	Apr		7994.00		7334.00		109.00%		260-280 psig
	May		16851.00		15460.00		109.00%		260-280 psig
	Jun		9904.00		9087.00		108.99%		260-280 psig
	Jul		12259.00		11246.00		109.01%		260-280 psig
	Aug		16869.00		15460.00		109.11%		260-280 psig
	Sept		17374.00		15940.00		109.00%		260-280 psig
	Oct		17471.00		16028.00		109.00%		260-280 psig
	Nov		11366.20		10427.70		109.00%		260-280 psig
	Dec		23296.40		21372.80		109.00%		260-280 psig
	Total		164,979		151,525		108.88%	FW/BW	
	Total Fresh Water and Brine Production Carry Over from Years	2023	10,368,654	bbls***	10,309,408	bbls	100.57%	FW/BW	
	Total Life Time Production Year Endin	2024	10,533,633	bbls	10,460,933	bbls	100.69%	FW/BW	



2023 Calculations

r=SqRtv(V*3/π*D)

V	Volume	=	10,460,933 bbls
D	Depth	=	360 ft
H	Height	=	2100 ft
Kf	ft3 salt/bbl		1 est
	r	=	166.6 ft
	Diameter		333.24 ft
	D/H=		0.159

Appendix B- Chemical Analysis

1. Fresh Water/Brine Water

2. Monitor Well #1

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December 03, 2024

WAYNE PRICE

WASSERHUND INC.

P.O. BOX 2140

LOVINGTON, NM 88260

RE: BUCKEYE BRINE STATION BW-04

Enclosed are the results of analyses for samples received by the laboratory on 11/14/24 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WASSERHUND INC. P.O. BOX 2140 LOVINGTON NM, 88260	Project: BUCKEYE BRINE STATION BW-04 Project Number: BW-04 Project Manager: WAYNE PRICE Fax To:	Reported: 03-Dec-24 09:57

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH	H246957-01	Water	14-Nov-24 10:00	14-Nov-24 11:30
BRINE	H246957-02	Water	14-Nov-24 10:00	14-Nov-24 11:30
MW - 1	H246957-03	Water	14-Nov-24 09:30	14-Nov-24 11:30

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FRESH

H246957-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride*	**64.0**		4.00	mg/L	1	4111508	KV	19-Nov-24	4500-Cl-B	
pH*	**8.36**		0.100	pH Units	1	4111453	KV	14-Nov-24	150.1	
Temperature °C	**19.6**			pH Units	1	4111453	KV	14-Nov-24	150.1	
Specific Gravity @ 60° F	**0.9960**		0.000	[blank]	1	4111521	HM	15-Nov-24	SM 2710F	
TDS*	**371**		5.00	mg/L	1	4111820	HM	19-Nov-24	160.1	

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Analytical Results For:

WASSERHUND INC. P.O. BOX 2140 LOVINGTON NM, 88260	Project: BUCKEYE BRINE STATION BW-04 Project Number: BW-04 Project Manager: WAYNE PRICE Fax To:	Reported: 03-Dec-24 09:57

BRINE

H246957-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride*	**196000**		4.00	mg/L	1	4111508	KV	19-Nov-24	4500-Cl-B	
pH*	**6.67**		0.100	pH Units	1	4111453	KV	14-Nov-24	150.1	
Temperature °C	**19.8**			pH Units	1	4111453	KV	14-Nov-24	150.1	
Specific Gravity @ 60° F	**1.199**		0.000	[blank]	1	4111521	HM	15-Nov-24	SM 2710F	
TDS*	**268000**		5.00	mg/L	1	4111820	HM	19-Nov-24	160.1	
Green Analytical Laboratories										
Total Recoverable Metals by ICP (E200.7)										
Sodium*	**108000**		500	mg/L	500	B243375	AWG	25-Nov-24	EPA 200.7	

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MW - 1

H246957-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Alkalinity, Bicarbonate	**234**		5.00	mg/L	1	4111834	HM	18-Nov-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4111834	HM	18-Nov-24	310.1	
Cation/Anion Balance	**- 0.13**			%	1	2082536	CK	03-Dec-24	CALC	
Chloride*	**36.0**		4.00	mg/L	1	4111508	KV	19-Nov-24	4500-Cl-B	
Conductivity*	**618**		1.00	umhos/cm @ 25°C	1	4111453	KV	14-Nov-24	120.1	
Oxidation/Reduction Potential	**46.0**			mV	1	4111460	CT	14-Nov-24	SM2580A	
Temperature	**21.6**			mV	1	4111460	CT	14-Nov-24	SM2580A	
pH*	**6.71**		0.100	pH Units	1	4111453	KV	14-Nov-24	150.1	
Temperature °C	**19.9**			pH Units	1	4111453	KV	14-Nov-24	150.1	
Specific Gravity @ 60° F	**0.9970**		0.000	[blank]	1	4111521	HM	15-Nov-24	SM 2710F	
Sulfate*	**67.1**		16.6	mg/L	1.66	4111915	HM	19-Nov-24	375.4	
TDS*	**376**		5.00	mg/L	1	4111820	HM	19-Nov-24	160.1	
Alkalinity, Total*	**192**		4.00	mg/L	1	4111834	HM	18-Nov-24	310.1	
Green Analytical Laboratories										
General Chemistry										
Bromide	<0.100		0.100	mg/L	1	B243407	AWG	21-Nov-24	EPA 300.0	
Fluoride*	**0.966**		0.100	mg/L	1	B243407	AWG	21-Nov-24	EPA 300.0	
Total Recoverable Metals by ICP (E200.7)										
Calcium*	**76.3**		0.200	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	
Magnesium*	**11.5**		0.100	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	
Potassium*	**4.45**		1.00	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	
Sodium*	**32.1**		1.00	mg/L	1	B243375	AWG	21-Nov-24	EPA 200.7	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WASSERHUND INC. P.O. BOX 2140 LOVINGTON NM, 88260	Project: BUCKEYE BRINE STATION BW-04 Project Number: BW-04 Project Manager: WAYNE PRICE Fax To:	Reported: 03-Dec-24 09:57

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4111453 - General Prep - Wet Chem										
LCS (4111453-BS1)				Prepared & Analyzed: 14-Nov-24						
pH	7.05		pH Units	7.00		101	90-110			
Duplicate (4111453-DUP1)		**Source: H246957-03**		Prepared & Analyzed: 14-Nov-24						
Conductivity	616	1.00	umhos/cm @ 25°C		618			0.324	20	
pH	6.70	0.100	pH Units		6.71			0.149	20	
Temperature °C	19.8		pH Units		19.9			0.504	200	
Batch 4111460 - General Prep - Wet Chem										
LCS (4111460-BS1)				Prepared & Analyzed: 14-Nov-24						
Oxidation/Reduction Potential	247		mV	240		103	90-110			
Duplicate (4111460-DUP1)		**Source: H246957-03**		Prepared & Analyzed: 14-Nov-24						
Oxidation/Reduction Potential	49.9		mV		46.0			8.13	20	
Batch 4111508 - General Prep - Wet Chem										
Blank (4111508-BLK1)				Prepared: 15-Nov-24 Analyzed: 19-Nov-24						
Chloride	ND	4.00	mg/L							
LCS (4111508-BS1)				Prepared: 15-Nov-24 Analyzed: 19-Nov-24						
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (4111508-BSD1)				Prepared: 15-Nov-24 Analyzed: 19-Nov-24						
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4111521 - General Prep - Wet Chem										
Duplicate (4111521-DUP1)		**Source: H246957-01**		Prepared & Analyzed: 15-Nov-24						
Specific Gravity @ 60° F	0.9956	0.000	[blank]		0.9960			0.0321	20	
Batch 4111820 - Filtration										
Blank (4111820-BLK1)				Prepared: 18-Nov-24 Analyzed: 21-Nov-24						
TDS	5.00	5.00	mg/L							
LCS (4111820-BS1)				Prepared: 18-Nov-24 Analyzed: 19-Nov-24						
TDS	843		mg/L	1000		84.3	80-120			
Duplicate (4111820-DUP1)		**Source: H246957-01**		Prepared: 18-Nov-24 Analyzed: 19-Nov-24						
TDS	377	5.00	mg/L		371			1.60	20	
Batch 4111834 - General Prep - Wet Chem										
Blank (4111834-BLK1)				Prepared & Analyzed: 18-Nov-24						
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (4111834-BS1)				Prepared & Analyzed: 18-Nov-24						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity, Total	260	10.0	mg/L	250		104	80-120			
LCS Dup (4111834-BSD1)				Prepared & Analyzed: 18-Nov-24						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	0.00	20	

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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4111915 - General Prep - Wet Chem										
Blank (4111915-BLK1)				Prepared & Analyzed: 19-Nov-24						
Sulfate	ND	10.0	mg/L							
LCS (4111915-BS1)				Prepared & Analyzed: 19-Nov-24						
Sulfate	16.7	10.0	mg/L	20.0		83.5	80-120			
LCS Dup (4111915-BSD1)				Prepared & Analyzed: 19-Nov-24						
Sulfate	16.0	10.0	mg/L	20.0		80.2	80-120	4.09	20	

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General Chemistry - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243407 - IC- Ion Chromatograph										
Blank (B243407-BLK1)				Prepared: 19-Nov-24 Analyzed: 21-Nov-24						
Fluoride	ND	0.100	mg/L							
Bromide	ND	0.100	mg/L							
LCS (B243407-BS1)				Prepared: 19-Nov-24 Analyzed: 21-Nov-24						
Fluoride	2.39	0.100	mg/L	2.50		95.6	90-110			
Bromide	2.36	0.100	mg/L	2.50		94.4	90-110			
LCS Dup (B243407-BSD1)				Prepared: 19-Nov-24 Analyzed: 21-Nov-24						
Fluoride	2.48	0.100	mg/L	2.50		99.3	90-110	3.82	20	
Bromide	2.45	0.100	mg/L	2.50		98.2	90-110	3.95	20	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243375 - Total Recoverable by ICP										
Blank (B243375-BLK1)				Prepared: 18-Nov-24 Analyzed: 21-Nov-24						
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.200	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B243375-BS1)				Prepared: 18-Nov-24 Analyzed: 21-Nov-24						
Sodium	1.56	1.00	mg/L	1.62		96.4	85-115			
Potassium	3.94	1.00	mg/L	4.00		98.6	85-115			
Magnesium	10.1	0.100	mg/L	10.0		101	85-115			
Calcium	1.97	0.200	mg/L	2.00		98.6	85-115			
LCS Dup (B243375-BSD1)				Prepared: 18-Nov-24 Analyzed: 21-Nov-24						
Sodium	1.55	1.00	mg/L	1.62		95.8	85-115	0.670	20	
Magnesium	10.2	0.100	mg/L	10.0		102	85-115	0.401	20	
Calcium	1.99	0.200	mg/L	2.00		99.3	85-115	0.756	20	
Potassium	3.97	1.00	mg/L	4.00		99.3	85-115	0.665	20	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

Z-01	- 0.13
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		BILL TO	
Company Name:	WASSERHUND INC	P.O. #:	
Project Manager:	WAYNE PRICE	Company:	
Address:	9 SYCAMORE LN	Attn:	
City:	GLENWOOD State: NM Zip: 88039	Address:	
Phone #:	505-715-2809 Fax #:	City:	
Project #:	BW-04 Project Owner:	State: Zip:	
Project Name:	BRINE WELL	Phone #:	
Project Location:	BUCKEYE	Fax #:	
Sampler Name:	W PRICE		

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	PH, SG, TDS, CL	PH, SG, TDS, CL + Mg	GENCHEM - CATION BALANCE	FLOURIDE, CALCIUM, POTASSIUM, MAGNESIUM, SODIUM, BICARB, CARBONATE, CL, SULFATE, TDS, PH, BROMIDE	ORP	PH, EH, SPEC CONDUCTANCE	GRAV124, TEMP-Field				
H246957																								
1	FRESH	✓	1						✓		✓		11/14/24	10:00 AM	✓									
2	BRINE	✓	2						✓				"			✓								
3	MW-1	✓	3	✓									4	9:30 AM			✓	✓	✓		✓			

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

Relinquished By: WAYNE PRICE	Date: 11/14/24 Time: 1:30 PM	Received By: S Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: WAYNEPRICE9.COM@GMAIL.COM
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.7 Corrected Temp. °C 4.1	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) SR

REMARKS: PURGE 3 WELL VOL - TEMP STABLIZE 57°F

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C

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

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

FORM-006 R 3.3 08/05/24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Lester Wayne Price Sr.
Wayne Price LLC
7 Sycamore Lane
Glenwood, New Mexico 88039

Generated 4/17/2024 1:58:33 PM Revision 1

JOB DESCRIPTION

Semi Annual Sampling

JOB NUMBER

885-913-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
4/17/2024 1:58:33 PM
Revision 1

Authorized for release by
Tiffany Shaw, Project Manager I
tiffany.shaw@et.eurofinsus.com
(505)345-3975

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Laboratory Job ID: 885-913-1

Table of Contents

Definitions/Glossary

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Wayne Price LLC
Project: Semi Annual Sampling

Job ID: 885-913-1

Job ID: 885-913-1 Eurofins Albuquerque

Job Narrative
885-913-1

REVISION

The report being provided is a revision of the original report sent on 4/11/2024. The report (revision 1) is being revised due to The client believes the Specific Gravity samples were switched at analysis..

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

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

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

Receipt
The samples were received on 3/8/2024 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions
Samples were incorrectly labeled at login, bottles switched. Labels corrected 3/22/24

Fresh (885-913-1) and Brine (885-913-2)

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

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

General Chemistry
Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Fresh (885-913-1) and Brine (885-913-2).

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

Client Sample Results

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

Client Sample ID: Fresh

Date Collected: 03/07/24 14:05
Date Received: 03/08/24 09:15

Lab Sample ID: 885-913-1

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55		10		mg/L			03/13/24 21:08	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	380		50		mg/L			03/12/24 15:53	1
Specific Gravity (SM 2710F)	1.0				NONE			03/22/24 14:20	1
pH (SM 4500 H+ B)	8.1	HF	0.1		SU			03/16/24 14:29	1

Client Sample Results

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

Client Sample ID: Brine

Date Collected: 03/07/24 14:10
Date Received: 03/08/24 09:15

Lab Sample ID: 885-913-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200000		10000		mg/L			03/20/24 10:46	20000

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	110000		20000		mg/L		03/14/24 10:27	03/22/24 17:58	20000

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	340000		5000		mg/L			03/12/24 15:53	1
Specific Gravity (SM 2710F)	1.2				NONE			03/22/24 14:20	1
pH (SM 4500 H+ B)	6.8	HF	0.1		SU			03/16/24 14:25	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-1695/4
Matrix: Water
Analysis Batch: 1695

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			03/13/24 16:52	1

Lab Sample ID: LCS 885-1695/5
Matrix: Water
Analysis Batch: 1695

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

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

Lab Sample ID: MRL 885-1695/3
Matrix: Water
Analysis Batch: 1695

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.536		mg/L		107	50 - 150		

Lab Sample ID: MB 885-2064/5
Matrix: Water
Analysis Batch: 2064

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			03/20/24 09:57	1

Lab Sample ID: LCS 885-2064/6
Matrix: Water
Analysis Batch: 2064

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.92		mg/L		98	90 - 110		

Lab Sample ID: MRL 885-2064/4
Matrix: Water
Analysis Batch: 2064

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.539		mg/L		108	50 - 150		

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-1689/1-A
Matrix: Water
Analysis Batch: 2063

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 1689

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0		mg/L		03/14/24 10:27	03/19/24 13:21	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

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

Lab Sample ID: LCS 885-1689/3-A
Matrix: Water
Analysis Batch: 2063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	50.0	48.4		mg/L		97	85 - 115

Lab Sample ID: LLCS 885-1689/2-A
Matrix: Water
Analysis Batch: 2063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 1689

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.500	0.488	J	mg/L		98	50 - 150

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

Lab Sample ID: MB 885-1612/1
Matrix: Water
Analysis Batch: 1612

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			03/12/24 15:53	1

Lab Sample ID: LCS 885-1612/2
Matrix: Water
Analysis Batch: 1612

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	993		mg/L		99	80 - 120

Method: SM 2710F - Specific Gravity

Lab Sample ID: MB 885-2180/1
Matrix: Water
Analysis Batch: 2180

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	0.999			NONE			03/22/24 14:20	1

QC Association Summary

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

HPLC/IC

Analysis Batch: 1695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-1	Fresh	Total/NA	Water	300.0	
MB 885-1695/4	Method Blank	Total/NA	Water	300.0	
LCS 885-1695/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-1695/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 2064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-2	Brine	Total/NA	Water	300.0	
MB 885-2064/5	Method Blank	Total/NA	Water	300.0	
LCS 885-2064/6	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-2064/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 1689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-2	Brine	Total Recoverable	Water	200.2	
MB 885-1689/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 885-1689/3-A	Lab Control Sample	Total Recoverable	Water	200.2	
LLCS 885-1689/2-A	Lab Control Sample	Total Recoverable	Water	200.2	

Analysis Batch: 2063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-1689/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	1689
LCS 885-1689/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	1689
LLCS 885-1689/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	1689

Analysis Batch: 2244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-2	Brine	Total Recoverable	Water	200.7 Rev 4.4	1689

General Chemistry

Analysis Batch: 1612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-1	Fresh	Total/NA	Water	2540C	
885-913-2	Brine	Total/NA	Water	2540C	
MB 885-1612/1	Method Blank	Total/NA	Water	2540C	
LCS 885-1612/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 1860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-1	Fresh	Total/NA	Water	SM 4500 H+ B	
885-913-2	Brine	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 2180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-913-1	Fresh	Total/NA	Water	SM 2710F	
885-913-2	Brine	Total/NA	Water	SM 2710F	
MB 885-2180/1	Method Blank	Total/NA	Water	SM 2710F	

Lab Chronicle

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

Client Sample ID: Fresh
Date Collected: 03/07/24 14:05
Date Received: 03/08/24 09:15

Lab Sample ID: 885-913-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		20	1695	RC	EET ALB	03/13/24 21:08
Total/NA	Analysis	2540C		1	1612	KS	EET ALB	03/12/24 15:53
Total/NA	Analysis	SM 2710F		1	2180	RC	EET ALB	03/22/24 14:20
Total/NA	Analysis	SM 4500 H+ B		1	1860	DL	EET ALB	03/16/24 14:29

Client Sample ID: Brine
Date Collected: 03/07/24 14:10
Date Received: 03/08/24 09:15

Lab Sample ID: 885-913-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		20000	2064	RC	EET ALB	03/20/24 10:46
Total Recoverable	Prep	200.2			1689	JN	EET ALB	03/14/24 10:27
Total Recoverable	Analysis	200.7 Rev 4.4		20000	2244	JR	EET ALB	03/22/24 17:58
Total/NA	Analysis	2540C		1	1612	KS	EET ALB	03/12/24 15:53
Total/NA	Analysis	SM 2710F		1	2180	RC	EET ALB	03/22/24 14:20
Total/NA	Analysis	SM 4500 H+ B		1	1860	DL	EET ALB	03/16/24 14:25

Laboratory References:

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

Accreditation/Certification Summary

Client: Wayne Price LLC
Project/Site: Semi Annual Sampling

Job ID: 885-913-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.2	Water	Sodium
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
SM 2710F		Water	Specific Gravity
SM 4500 H+ B		Water	pH

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2710F		Water	Specific Gravity

Chain-of-Custody Record

Client: Wasserhund Inc.

Mailing Address: Price LLC 7 Sypmon Ln
Malenwood NM 88039

Phone #: 575-715-2809

email or Fax#: waynepricey.com@gmail.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other ____
☐ EDD (Type) ____

Turn-Around Time:
■ Standard ☐ Rush ____

Project Name: Semi Annual Sampling

Project #: BW04 March

Project Manager: Lester Wayne Price Sr

Sampler: Lester Wayne Price Jr

On Ice: ■ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.4 ± 0 = 1.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Ph, Dens, TDS, Chloride	Ph, Density, TDS, Chlo, Sodium				
3/7/24	[illegible]	Liquid	FRESH	500 ml Plastic	ICE	885-913 COC											X					
3/7/24	[illegible]	Liquid	BRINE	500 ml Plastic	ICE													X				
3/7/24	[illegible]	Liquid	BRINE	250 ml Plastic	ICE Nitric													X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/7/24	4:15 PM	Lester Wayne Price Jr				
3/7	1418	[signature]	[signature]	Fedex	3/8/24	915

Remarks:

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

Login Sample Receipt Checklist

Client: Wayne Price LLC Job Number: 885-913-1

Login Number: 913 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Cason, Cheyenne

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Lester Wayne Price Jr.
Wayne Price LLC
7 Sycamore Lane
Glenwood, New Mexico 88039

Generated 4/29/2024 3:21:58 PM

JOB DESCRIPTION

BW04 MW1

JOB NUMBER

885-2017-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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Client: Wayne Price LLC
Project/Site: BW04 MW1

Laboratory Job ID: 885-2017-1

Table of Contents

Definitions/Glossary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
^6-	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Wayne Price LLC
Project: BW04 MW1

Job ID: 885-2017-1

Job ID: 885-2017-1 Eurofins Albuquerque

Job Narrative
885-2017-1

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

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

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

Receipt
The samples were received on 3/29/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

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

GC/MS Semi VOA
Method 8270C_SIM: The continuing calibration verification (CCV) associated with batch 885-3961 recovered above the upper control limit for Atrazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW1 (885-2017-1).

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

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

PCBs
Method 8082A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 885-2567 and analytical batch 885-2880 recovered outside control limits for the following analytes: PCB-1016. Samples will be reported as is.

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

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

Metals
Method 200.7 - Dissolved: The interference check standard solution (ICSA) associated with batch 885-2543 had results flagged for Mo and Si. But as per the SOP Mo and Si are within the range which is <2 times the PQL and >5 times the -PQL. TALS is only accounting for the <2 times the PQL. MRL for Mo is 0.0008 mg/L and the MRL for Si is 0.08mg/L. Hence there are no failures on the ICSA.

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

General Chemistry
Method Kelada_01: The matrix spike (MS) recoveries for analytical batch 860-154161 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Gas Flow Proportional Counter
Method 903.0: Radium 226 prep batch 160-655144

Case Narrative

Client: Wayne Price LLC
Project: BW04 MW1

Job ID: 885-2017-1

Job ID: 885-2017-1 (Continued) Eurofins Albuquerque

The barium carrier recovery is outside the upper control limit (110%) for the following sample: MW1 (885-2017-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 903.0: Radium-226 prep batch 160-655144:

The Ba Carrier recovery is outside the upper control limit (110%) for the following sample: MW1 (885-2017-1) The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The sample have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

Method 904.0: Radium 228 prep batch 160-655146

The barium carrier recovery is outside the upper control limit (110%) for the following sample: MW1 (885-2017-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium-228 prep batch 160-655146:

The Ba Carrier recovery is outside the upper control limit (110%) for the following sample: MW1 (885-2017-1) The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The sample have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

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

Client Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: MW1

Date Collected: 03/28/24 08:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/04/24 03:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/04/24 03:53	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/04/24 03:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/04/24 03:53	1
1,1-Dichloroethane	ND		1.0		ug/L			04/04/24 03:53	1
1,1-Dichloroethene	ND		1.0		ug/L			04/04/24 03:53	1
1,1-Dichloropropene	ND		1.0		ug/L			04/04/24 03:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/04/24 03:53	1
1,2,3-Trichloropropane	ND		2.0		ug/L			04/04/24 03:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/04/24 03:53	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/04/24 03:53	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			04/04/24 03:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/04/24 03:53	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			04/04/24 03:53	1
1,2-Dichloropropane	ND		1.0		ug/L			04/04/24 03:53	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/04/24 03:53	1
1,3-Dichloropropane	ND		1.0		ug/L			04/04/24 03:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/04/24 03:53	1
1-Methylnaphthalene	ND		4.0		ug/L			04/04/24 03:53	1
2,2-Dichloropropane	ND		2.0		ug/L			04/04/24 03:53	1
2-Butanone	ND		10		ug/L			04/04/24 03:53	1
2-Chlorotoluene	ND		1.0		ug/L			04/04/24 03:53	1
2-Hexanone	ND		10		ug/L			04/04/24 03:53	1
2-Methylnaphthalene	ND		4.0		ug/L			04/04/24 03:53	1
4-Chlorotoluene	ND		1.0		ug/L			04/04/24 03:53	1
4-Isopropyltoluene	ND		1.0		ug/L			04/04/24 03:53	1
4-Methyl-2-pentanone	ND		10		ug/L			04/04/24 03:53	1
Benzene	ND		1.0		ug/L			04/04/24 03:53	1
Bromobenzene	ND		1.0		ug/L			04/04/24 03:53	1
Bromodichloromethane	ND		1.0		ug/L			04/04/24 03:53	1
Bromoform	ND		1.0		ug/L			04/04/24 03:53	1
Bromomethane	ND		3.0		ug/L			04/04/24 03:53	1
Carbon disulfide	ND		10		ug/L			04/04/24 03:53	1
Carbon tetrachloride	ND		1.0		ug/L			04/04/24 03:53	1
Chlorobenzene	ND		1.0		ug/L			04/04/24 03:53	1
Chloroethane	ND		2.0		ug/L			04/04/24 03:53	1
Chloroform	ND		1.0		ug/L			04/04/24 03:53	1
Chloromethane	ND		3.0		ug/L			04/04/24 03:53	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 03:53	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 03:53	1
Dibromochloromethane	ND		1.0		ug/L			04/04/24 03:53	1
Dibromomethane	ND		1.0		ug/L			04/04/24 03:53	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/04/24 03:53	1
Ethylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
Hexachlorobutadiene	ND		1.0		ug/L			04/04/24 03:53	1
Isopropylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
Methylene Chloride	ND		3.0		ug/L			04/04/24 03:53	1

Client Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: MW1
Date Collected: 03/28/24 08:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/04/24 03:53	1
Naphthalene	ND		2.0		ug/L			04/04/24 03:53	1
n-Butylbenzene	ND		3.0		ug/L			04/04/24 03:53	1
N-Propylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
sec-Butylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
Styrene	ND		1.0		ug/L			04/04/24 03:53	1
tert-Butylbenzene	ND		1.0		ug/L			04/04/24 03:53	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/04/24 03:53	1
Toluene	ND		1.0		ug/L			04/04/24 03:53	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 03:53	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 03:53	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/04/24 03:53	1
Trichlorofluoromethane	ND		1.0		ug/L			04/04/24 03:53	1
Vinyl chloride	ND		1.0		ug/L			04/04/24 03:53	1
Xylenes, Total	ND		1.5		ug/L			04/04/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/04/24 03:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/04/24 19:41*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/04/24 03:53*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/04/24 03:53*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/04/24 19:41*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/04/24 03:53*	*1*

Method: SW846 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.30		ug/L		04/01/24 12:47	04/26/24 01:36	1
2-Methylnaphthalene	ND		0.30		ug/L		04/01/24 12:47	04/26/24 01:36	1
Atrazine	ND		1.5		ug/L		04/01/24 12:47	04/26/24 01:36	1
Benzo[a]pyrene	ND		0.40		ug/L		04/01/24 12:47	04/26/24 01:36	1
Naphthalene	ND		0.30		ug/L		04/01/24 12:47	04/26/24 01:36	1
Pentachlorophenol	ND		0.30		ug/L		04/01/24 12:47	04/26/24 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 141*	*04/01/24 12:47*	*04/26/24 01:36*	*1*
2-Fluorobiphenyl (Surr)	*62*		*21 - 130*	*04/01/24 12:47*	*04/26/24 01:36*	*1*
Nitrobenzene-d5 (Surr)	*65*		*16 - 130*	*04/01/24 12:47*	*04/26/24 01:36*	*1*
p-Terphenyl-d14 (Surr)	*52*		*40 - 164*	*04/01/24 12:47*	*04/26/24 01:36*	*1*

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		04/02/24 09:39	04/02/24 16:16	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*1	0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1
PCB-1221	ND		0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1
PCB-1232	ND		0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1
PCB-1242	ND		0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1
PCB-1248	ND		0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1
PCB-1254	ND		0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1

Client Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: MW1
Date Collected: 03/28/24 08:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-1
Matrix: Water

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.25		ug/L		04/01/24 13:57	04/05/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*15 - 137*	*04/01/24 13:57*	*04/05/24 13:58*	*1*
DCB Decachlorobiphenyl (Surr)	*56*		*15 - 175*	*04/01/24 13:57*	*04/05/24 13:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.46**		0.10		mg/L			03/29/24 14:11	1
Nitrate Nitrite as N	ND		0.20		mg/L			03/29/24 14:11	1
Chloride	**46**		10		mg/L			03/29/24 14:23	20
Fluoride	**1.2**		0.10		mg/L			03/29/24 14:11	1
Sulfate	**91**		10		mg/L			03/29/24 14:23	20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.020		mg/L			04/01/24 09:18	1
Barium	**0.051**		0.0030		mg/L			04/01/24 09:18	1
Beryllium	ND		0.0020		mg/L			04/01/24 09:18	1
Boron	**0.23**		0.040		mg/L			04/01/24 09:18	1
Cadmium	ND		0.0020		mg/L			04/01/24 09:18	1
Chromium	ND		0.0060		mg/L			04/01/24 09:18	1
Cobalt	ND		0.0060		mg/L			04/01/24 09:18	1
Copper	ND		0.0060		mg/L			04/01/24 09:18	1
Iron	**0.43**		0.020		mg/L			04/01/24 09:18	1
Manganese	**1.0**		0.010		mg/L			04/01/24 09:20	5
Molybdenum	**0.020**	**^6-**	0.0080		mg/L			04/01/24 09:18	1
Nickel	ND		0.010		mg/L			04/01/24 09:18	1
Silver	ND		0.0050		mg/L			04/01/24 09:18	1
Zinc	ND		0.010		mg/L			04/01/24 09:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L			04/02/24 14:45	1
Arsenic	**0.0068**		0.00050		mg/L			04/02/24 14:45	1
Lead	ND		0.00050		mg/L			04/02/24 14:45	1
Selenium	ND		0.0010		mg/L			04/02/24 14:45	1
Thallium	ND		0.00025		mg/L			04/02/24 14:45	1
Uranium	**0.0037**		0.00050		mg/L			04/02/24 14:45	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/10/24 10:28	04/11/24 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		250		mg/L			04/02/24 11:29	1
Phenolics, Total Recoverable (SW846 9067)	ND		5.0		ug/L		04/02/24 06:51	04/02/24 14:15	1
Cyanide, Total (EPA Kelada 01)	ND	F1	0.0050		mg/L			04/10/24 13:30	1

Client Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: MW1
Date Collected: 03/28/24 08:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			04/10/24 00:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**		20		mg/L			04/10/24 00:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		2.0		mg/L			04/10/24 00:45	1
pH (SM 4500 H+ B)	**8.1**	**HF**	0.1		SU			04/10/24 00:45	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.332**		0.229	0.231	1.00	0.318	pCi/L	04/03/24 10:04	04/26/24 15:01	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.206	U	0.389	0.389	1.00	0.675	pCi/L	04/03/24 10:09	04/25/24 12:02	1

Client Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: Trip Blank

Date Collected: 03/28/24 00:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/04/24 04:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/04/24 04:18	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/04/24 04:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/04/24 04:18	1
1,1-Dichloroethane	ND		1.0		ug/L			04/04/24 04:18	1
1,1-Dichloroethene	ND		1.0		ug/L			04/04/24 04:18	1
1,1-Dichloropropene	ND		1.0		ug/L			04/04/24 04:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/04/24 04:18	1
1,2,3-Trichloropropane	ND		2.0		ug/L			04/04/24 04:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/04/24 04:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/04/24 04:18	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			04/04/24 04:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/04/24 04:18	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			04/04/24 04:18	1
1,2-Dichloropropane	ND		1.0		ug/L			04/04/24 04:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/04/24 04:18	1
1,3-Dichloropropane	ND		1.0		ug/L			04/04/24 04:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/04/24 04:18	1
1-Methylnaphthalene	ND		4.0		ug/L			04/04/24 04:18	1
2,2-Dichloropropane	ND		2.0		ug/L			04/04/24 04:18	1
2-Butanone	ND		10		ug/L			04/04/24 04:18	1
2-Chlorotoluene	ND		1.0		ug/L			04/04/24 04:18	1
2-Hexanone	ND		10		ug/L			04/04/24 04:18	1
2-Methylnaphthalene	ND		4.0		ug/L			04/04/24 04:18	1
4-Chlorotoluene	ND		1.0		ug/L			04/04/24 04:18	1
4-Isopropyltoluene	ND		1.0		ug/L			04/04/24 04:18	1
4-Methyl-2-pentanone	ND		10		ug/L			04/04/24 04:18	1
Benzene	ND		1.0		ug/L			04/04/24 04:18	1
Bromobenzene	ND		1.0		ug/L			04/04/24 04:18	1
Bromodichloromethane	ND		1.0		ug/L			04/04/24 04:18	1
Bromoform	ND		1.0		ug/L			04/04/24 04:18	1
Bromomethane	ND		3.0		ug/L			04/04/24 04:18	1
Carbon disulfide	ND		10		ug/L			04/04/24 04:18	1
Carbon tetrachloride	ND		1.0		ug/L			04/04/24 04:18	1
Chlorobenzene	ND		1.0		ug/L			04/04/24 04:18	1
Chloroethane	ND		2.0		ug/L			04/04/24 04:18	1
Chloroform	ND		1.0		ug/L			04/04/24 04:18	1
Chloromethane	ND		3.0		ug/L			04/04/24 04:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 04:18	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 04:18	1
Dibromochloromethane	ND		1.0		ug/L			04/04/24 04:18	1
Dibromomethane	ND		1.0		ug/L			04/04/24 04:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/04/24 04:18	1
Ethylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
Hexachlorobutadiene	ND		1.0		ug/L			04/04/24 04:18	1
Isopropylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
Methylene Chloride	ND		3.0		ug/L			04/04/24 04:18	1

Client Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: Trip Blank

Date Collected: 03/28/24 00:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/04/24 04:18	1
Naphthalene	ND		2.0		ug/L			04/04/24 04:18	1
n-Butylbenzene	ND		3.0		ug/L			04/04/24 04:18	1
N-Propylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
sec-Butylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
Styrene	ND		1.0		ug/L			04/04/24 04:18	1
tert-Butylbenzene	ND		1.0		ug/L			04/04/24 04:18	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/04/24 04:18	1
Toluene	ND		1.0		ug/L			04/04/24 04:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 04:18	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 04:18	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/04/24 04:18	1
Trichlorofluoromethane	ND		1.0		ug/L			04/04/24 04:18	1
Vinyl chloride	ND		1.0		ug/L			04/04/24 04:18	1
Xylenes, Total	ND		1.5		ug/L			04/04/24 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/04/24 04:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/04/24 04:18*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/04/24 04:18*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/24 04:18*	*1*

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095		ug/L		04/02/24 09:39	04/02/24 16:33	1

Tracer/Carrier Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
LCS 160-655144/2-A	Lab Control Sample	94.0
MB 160-655144/1-A	Method Blank	100

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
LCS 160-655146/2-A	Lab Control Sample	94.0	78.9
MB 160-655146/1-A	Method Blank	100	77.8

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

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

Lab Sample ID: MB 885-2765/3
Matrix: Water
Analysis Batch: 2765

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/04/24 00:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/04/24 00:38	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/04/24 00:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/04/24 00:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/04/24 00:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/04/24 00:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/04/24 00:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/04/24 00:38	1
1,2,3-Trichloropropane	ND		2.0		ug/L			04/04/24 00:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/04/24 00:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/04/24 00:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/04/24 00:38	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			04/04/24 00:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/04/24 00:38	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			04/04/24 00:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/04/24 00:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/04/24 00:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/04/24 00:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/04/24 00:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/04/24 00:38	1
1-Methylnaphthalene	ND		4.0		ug/L			04/04/24 00:38	1
2,2-Dichloropropane	ND		2.0		ug/L			04/04/24 00:38	1
2-Butanone	ND		10		ug/L			04/04/24 00:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/04/24 00:38	1
2-Hexanone	ND		10		ug/L			04/04/24 00:38	1
2-Methylnaphthalene	ND		4.0		ug/L			04/04/24 00:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/04/24 00:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/04/24 00:38	1
4-Methyl-2-pentanone	ND		10		ug/L			04/04/24 00:38	1
Benzene	ND		1.0		ug/L			04/04/24 00:38	1
Bromobenzene	ND		1.0		ug/L			04/04/24 00:38	1
Bromodichloromethane	ND		1.0		ug/L			04/04/24 00:38	1
Bromoform	ND		1.0		ug/L			04/04/24 00:38	1
Bromomethane	ND		3.0		ug/L			04/04/24 00:38	1
Carbon disulfide	ND		10		ug/L			04/04/24 00:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/04/24 00:38	1
Chlorobenzene	ND		1.0		ug/L			04/04/24 00:38	1
Chloroethane	ND		2.0		ug/L			04/04/24 00:38	1
Chloroform	ND		1.0		ug/L			04/04/24 00:38	1
Chloromethane	ND		3.0		ug/L			04/04/24 00:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 00:38	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 00:38	1
Dibromochloromethane	ND		1.0		ug/L			04/04/24 00:38	1
Dibromomethane	ND		1.0		ug/L			04/04/24 00:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/04/24 00:38	1
Ethylbenzene	ND		1.0		ug/L			04/04/24 00:38	1
Hexachlorobutadiene	ND		1.0		ug/L			04/04/24 00:38	1
Isopropylbenzene	ND		1.0		ug/L			04/04/24 00:38	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

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

Lab Sample ID: MB 885-2765/3
Matrix: Water
Analysis Batch: 2765

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		3.0		ug/L			04/04/24 00:38	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/04/24 00:38	1
Naphthalene	ND		2.0		ug/L			04/04/24 00:38	1
n-Butylbenzene	ND		3.0		ug/L			04/04/24 00:38	1
N-Propylbenzene	ND		1.0		ug/L			04/04/24 00:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/04/24 00:38	1
Styrene	ND		1.0		ug/L			04/04/24 00:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/04/24 00:38	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/04/24 00:38	1
Toluene	ND		1.0		ug/L			04/04/24 00:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 00:38	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 00:38	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/04/24 00:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/04/24 00:38	1
Vinyl chloride	ND		1.0		ug/L			04/04/24 00:38	1
Xylenes, Total	ND		1.5		ug/L			04/04/24 00:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/04/24 00:38*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/04/24 00:38*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/04/24 00:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/24 00:38*	*1*

Lab Sample ID: LCS 885-2765/2
Matrix: Water
Analysis Batch: 2765

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	19.5		ug/L		97	70 - 130		
Benzene			20.1	20.5		ug/L		102	70 - 130		
Chlorobenzene			20.1	20.9		ug/L		104	70 - 130		
Toluene			20.2	20.3		ug/L		100	70 - 130		
Trichloroethene (TCE)			20.2	19.3		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 885-2836/4
Matrix: Water
Analysis Batch: 2836

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/04/24 11:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/04/24 11:57	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/04/24 11:57	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

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

Lab Sample ID: MB 885-2836/4
Matrix: Water
Analysis Batch: 2836

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0		ug/L			04/04/24 11:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/04/24 11:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/04/24 11:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/04/24 11:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/04/24 11:57	1
1,2,3-Trichloropropane	ND		2.0		ug/L			04/04/24 11:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/04/24 11:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/04/24 11:57	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			04/04/24 11:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/04/24 11:57	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			04/04/24 11:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/04/24 11:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/04/24 11:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/04/24 11:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/04/24 11:57	1
1-Methylnaphthalene	ND		4.0		ug/L			04/04/24 11:57	1
2,2-Dichloropropane	ND		2.0		ug/L			04/04/24 11:57	1
2-Butanone	ND		10		ug/L			04/04/24 11:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/04/24 11:57	1
2-Hexanone	ND		10		ug/L			04/04/24 11:57	1
2-Methylnaphthalene	ND		4.0		ug/L			04/04/24 11:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/04/24 11:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/04/24 11:57	1
4-Methyl-2-pentanone	ND		10		ug/L			04/04/24 11:57	1
Benzene	ND		1.0		ug/L			04/04/24 11:57	1
Bromobenzene	ND		1.0		ug/L			04/04/24 11:57	1
Bromodichloromethane	ND		1.0		ug/L			04/04/24 11:57	1
Bromoform	ND		1.0		ug/L			04/04/24 11:57	1
Bromomethane	ND		3.0		ug/L			04/04/24 11:57	1
Carbon disulfide	ND		10		ug/L			04/04/24 11:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/04/24 11:57	1
Chlorobenzene	ND		1.0		ug/L			04/04/24 11:57	1
Chloroethane	ND		2.0		ug/L			04/04/24 11:57	1
Chloroform	ND		1.0		ug/L			04/04/24 11:57	1
Chloromethane	ND		3.0		ug/L			04/04/24 11:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 11:57	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 11:57	1
Dibromochloromethane	ND		1.0		ug/L			04/04/24 11:57	1
Dibromomethane	ND		1.0		ug/L			04/04/24 11:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/04/24 11:57	1
Ethylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
Hexachlorobutadiene	ND		1.0		ug/L			04/04/24 11:57	1
Isopropylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
Methylene Chloride	ND		3.0		ug/L			04/04/24 11:57	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			04/04/24 11:57	1
Naphthalene	ND		2.0		ug/L			04/04/24 11:57	1
n-Butylbenzene	ND		3.0		ug/L			04/04/24 11:57	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

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

Lab Sample ID: MB 885-2836/4
Matrix: Water
Analysis Batch: 2836

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
Styrene	ND		1.0		ug/L			04/04/24 11:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/04/24 11:57	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			04/04/24 11:57	1
Toluene	ND		1.0		ug/L			04/04/24 11:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/04/24 11:57	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/04/24 11:57	1
Trichloroethene (TCE)	ND		1.0		ug/L			04/04/24 11:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/04/24 11:57	1
Vinyl chloride	ND		1.0		ug/L			04/04/24 11:57	1
Xylenes, Total	ND		1.5		ug/L			04/04/24 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/04/24 11:57*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/04/24 11:57*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/04/24 11:57*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/04/24 11:57*	*1*

Lab Sample ID: LCS 885-2836/3
Matrix: Water
Analysis Batch: 2836

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	20.1		ug/L		100	70 - 130		
Benzene			20.1	21.1		ug/L		105	70 - 130		
Chlorobenzene			20.1	22.1		ug/L		110	70 - 130		
Toluene			20.2	21.4		ug/L		106	70 - 130		
Trichloroethene (TCE)			20.2	20.2		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 885-2561/1-A
Matrix: Water
Analysis Batch: 3961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2561

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.30		ug/L		04/01/24 12:47	04/25/24 23:21	1
2-Methylnaphthalene	ND		0.30		ug/L		04/01/24 12:47	04/25/24 23:21	1
Atrazine	ND		1.5		ug/L		04/01/24 12:47	04/25/24 23:21	1
Benzo[a]pyrene	ND		0.40		ug/L		04/01/24 12:47	04/25/24 23:21	1
Naphthalene	ND		0.30		ug/L		04/01/24 12:47	04/25/24 23:21	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 885-2561/1-A
Matrix: Water
Analysis Batch: 3961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2561

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.30		ug/L		04/01/24 12:47	04/25/24 23:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*53*		*15 - 141*	*04/01/24 12:47*	*04/25/24 23:21*	*1*
2-Fluorobiphenyl (Surr)	*51*		*21 - 130*	*04/01/24 12:47*	*04/25/24 23:21*	*1*
Nitrobenzene-d5 (Surr)	*56*		*16 - 130*	*04/01/24 12:47*	*04/25/24 23:21*	*1*
p-Terphenyl-d14 (Surr)	*103*		*40 - 164*	*04/01/24 12:47*	*04/25/24 23:21*	*1*

Lab Sample ID: LCS 885-2561/2-A
Matrix: Water
Analysis Batch: 3961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			2.00	0.820		ug/L		41	15 - 130		
2-Methylnaphthalene			2.00	0.800		ug/L		40	15 - 130		
Atrazine			2.00	2.20		ug/L		110	15 - 201		
Benzo[a]pyrene			2.00	1.60		ug/L		80	42 - 136		
Naphthalene			2.00	0.660		ug/L		33	15 - 130		
Pentachlorophenol			2.00	1.36		ug/L		68	26 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*73*		*15 - 141*
2-Fluorobiphenyl (Surr)	*38*		*21 - 130*
Nitrobenzene-d5 (Surr)	*49*		*16 - 130*
p-Terphenyl-d14 (Surr)	*97*		*40 - 164*

Lab Sample ID: LCSD 885-2561/3-A
Matrix: Water
Analysis Batch: 3961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2561

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			2.00	0.860		ug/L		43	15 - 130	5	50
2-Methylnaphthalene			2.00	0.840		ug/L		42	15 - 130	5	50
Atrazine			2.00	2.02		ug/L		101	15 - 201	9	20
Benzo[a]pyrene			2.00	1.52		ug/L		76	42 - 136	5	20
Naphthalene			2.00	0.840		ug/L		42	15 - 130	24	50
Pentachlorophenol			2.00	1.22		ug/L		61	26 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*62*		*15 - 141*
2-Fluorobiphenyl (Surr)	*41*		*21 - 130*
Nitrobenzene-d5 (Surr)	*49*		*16 - 130*
p-Terphenyl-d14 (Surr)	*78*		*40 - 164*

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-2602/3-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2602

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010		ug/L		04/02/24 09:39	04/02/24 15:42	1

Lab Sample ID: LCS 885-2602/4-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.114		ug/L		114	70 - 130		

Lab Sample ID: MRL 885-2602/1-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2602

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	ND		ug/L		65	60 - 140		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 885-2567/1-A
Matrix: Water
Analysis Batch: 2880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2567

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1
PCB-1221	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1
PCB-1232	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1
PCB-1242	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1
PCB-1248	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1
PCB-1254	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1
PCB-1260	ND		0.25		ug/L		04/01/24 13:57	04/05/24 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*15 - 137*	*04/01/24 13:57*	*04/05/24 12:07*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*15 - 175*	*04/01/24 13:57*	*04/05/24 12:07*	*1*

Lab Sample ID: LCS 885-2567/2-A
Matrix: Water
Analysis Batch: 2880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2567

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			5.00	3.26		ug/L		65	23 - 130		
PCB-1260			5.00	4.45		ug/L		89	54 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*56*		*15 - 137*
DCB Decachlorobiphenyl (Surr)	*89*		*15 - 175*

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 885-2567/3-A
Matrix: Water
Analysis Batch: 2880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2567

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			5.00	2.52	*1	ug/L		50	23 - 130	25	20
PCB-1260			5.00	4.27		ug/L		85	54 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*42*		*15 - 137*
DCB Decachlorobiphenyl (Surr)	*82*		*15 - 175*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-2546/4
Matrix: Water
Analysis Batch: 2546

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10		mg/L			03/29/24 09:01	1
Chloride	ND		0.50		mg/L			03/29/24 09:01	1
Fluoride	ND		0.10		mg/L			03/29/24 09:01	1
Sulfate	ND		0.50		mg/L			03/29/24 09:01	1

Lab Sample ID: LCS 885-2546/5
Matrix: Water
Analysis Batch: 2546

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			2.50	2.49		mg/L		100	90 - 110		
Chloride			5.00	4.86		mg/L		97	90 - 110		
Fluoride			0.500	0.511		mg/L		102	90 - 110		
Sulfate			10.0	9.91		mg/L		99	90 - 110		

Lab Sample ID: MRL 885-2546/3
Matrix: Water
Analysis Batch: 2546

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			0.100	0.101		mg/L		101	50 - 150		
Chloride			0.500	0.539		mg/L		108	50 - 150		
Fluoride			0.100	0.110		mg/L		110	50 - 150		
Sulfate			0.500	0.540		mg/L		108	50 - 150		

Lab Sample ID: MB 885-2547/4
Matrix: Water
Analysis Batch: 2547

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20		mg/L			03/29/24 09:01	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-2543/16
Matrix: Water
Analysis Batch: 2543

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.020		mg/L			04/01/24 08:49	1
Barium	ND		0.0030		mg/L			04/01/24 08:49	1
Beryllium	ND		0.0020		mg/L			04/01/24 08:49	1
Boron	ND		0.040		mg/L			04/01/24 08:49	1
Cadmium	ND		0.0020		mg/L			04/01/24 08:49	1
Chromium	ND		0.0060		mg/L			04/01/24 08:49	1
Cobalt	ND		0.0060		mg/L			04/01/24 08:49	1
Copper	ND		0.0060		mg/L			04/01/24 08:49	1
Iron	ND		0.020		mg/L			04/01/24 08:49	1
Manganese	ND		0.0020		mg/L			04/01/24 08:49	1
Molybdenum	ND	^6-	0.0080		mg/L			04/01/24 08:49	1
Nickel	ND		0.010		mg/L			04/01/24 08:49	1
Silver	ND		0.0050		mg/L			04/01/24 08:49	1
Zinc	ND		0.010		mg/L			04/01/24 08:49	1

Lab Sample ID: LCS 885-2543/18
Matrix: Water
Analysis Batch: 2543

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			0.500	0.558		mg/L		112	85 - 115		
Barium			0.500	0.493		mg/L		99	85 - 115		
Beryllium			0.500	0.508		mg/L		102	85 - 115		
Boron			0.500	0.509		mg/L		102	85 - 115		
Cadmium			0.500	0.499		mg/L		100	85 - 115		
Chromium			0.500	0.489		mg/L		98	85 - 115		
Cobalt			0.500	0.484		mg/L		97	85 - 115		
Copper			0.500	0.495		mg/L		99	85 - 115		
Iron			0.500	0.507		mg/L		101	85 - 115		
Manganese			0.500	0.495		mg/L		99	85 - 115		
Molybdenum			0.500	0.488	^6-	mg/L		98	85 - 115		
Nickel			0.500	0.483		mg/L		97	85 - 115		
Silver			0.500	0.501		mg/L		100	85 - 115		
Zinc			0.500	0.491		mg/L		98	85 - 115		

Lab Sample ID: LLCS 885-2543/23
Matrix: Water
Analysis Batch: 2543

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			0.0100	0.0141	J	mg/L		141	50 - 150		
Barium			0.00200	ND		mg/L		75	50 - 150		
Beryllium			0.00200	0.00225		mg/L		113	50 - 150		
Boron			0.0400	0.0394	J	mg/L		99	50 - 150		
Cadmium			0.00200	ND		mg/L		58	50 - 150		
Chromium			0.00600	0.00482	J	mg/L		80	50 - 150		
Cobalt			0.00600	0.00568	J	mg/L		95	50 - 150		
Copper			0.00600	0.00466	J	mg/L		78	50 - 150		
Iron			0.0200	0.0220		mg/L		110	50 - 150		

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

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

Lab Sample ID: LLCS 885-2543/23
Matrix: Water
Analysis Batch: 2543

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.00200	0.00206		mg/L		103	50 - 150
Molybdenum	0.00800	0.00610	J ^6-	mg/L		76	50 - 150
Nickel	0.00500	0.00419	J	mg/L		84	50 - 150
Silver	0.00500	0.00428	J	mg/L		86	50 - 150
Zinc	0.0100	0.00983	J	mg/L		98	50 - 150

Lab Sample ID: MRL 885-2543/13
Matrix: Water
Analysis Batch: 2543

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.0100	ND		mg/L		120	50 - 150
Barium	0.00200	ND		mg/L		78	50 - 150
Beryllium	0.00200	0.00228		mg/L		114	50 - 150
Boron	0.0400	0.0390	J	mg/L		97	50 - 150
Cadmium	0.00200	0.00191	J	mg/L		95	50 - 150
Chromium	0.00600	0.00634		mg/L		106	50 - 150
Cobalt	0.00600	0.00611		mg/L		102	50 - 150
Copper	0.00600	0.00476	J	mg/L		79	50 - 150
Iron	0.0200	0.0218	J	mg/L		109	50 - 150
Manganese	0.00200	0.00208		mg/L		104	50 - 150
Molybdenum	0.00800	0.00683	J	mg/L		85	50 - 150
Nickel	0.00500	0.00657	J	mg/L		131	50 - 150
Silver	0.00500	0.00469	J	mg/L		94	50 - 150
Zinc	0.0100	0.0108		mg/L		108	50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 885-2681/12
Matrix: Water
Analysis Batch: 2681

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L			04/02/24 12:37	1
Lead	ND		0.00050	mg/L			04/02/24 12:37	1
Selenium	ND		0.0010	mg/L			04/02/24 12:37	1
Thallium	ND		0.00025	mg/L			04/02/24 12:37	1
Uranium	ND		0.00050	mg/L			04/02/24 12:37	1

Lab Sample ID: MB 885-2681/39
Matrix: Water
Analysis Batch: 2681

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010	mg/L			04/02/24 13:57	1
Arsenic	ND		0.00050	mg/L			04/02/24 13:57	1
Lead	ND		0.00050	mg/L			04/02/24 13:57	1
Selenium	ND		0.0010	mg/L			04/02/24 13:57	1
Thallium	ND		0.00025	mg/L			04/02/24 13:57	1
Uranium	ND		0.00050	mg/L			04/02/24 13:57	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 885-2681/40
Matrix: Water
Analysis Batch: 2681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0250	0.0243		mg/L		97	85 - 115
Arsenic	0.0250	0.0241		mg/L		96	85 - 115
Lead	0.0125	0.0121		mg/L		97	85 - 115
Selenium	0.0250	0.0248		mg/L		99	85 - 115
Thallium	0.0125	0.0121		mg/L		97	85 - 115
Uranium	0.0125	0.0119		mg/L		95	85 - 115

Lab Sample ID: MRL 885-2681/10
Matrix: Water
Analysis Batch: 2681

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00100	0.00110		mg/L		110	50 - 150
Lead	0.000500	0.000505		mg/L		101	50 - 150
Selenium	0.00100	0.00116		mg/L		116	50 - 150
Uranium	0.000500	0.000490	J	mg/L		98	50 - 150

Lab Sample ID: MRL 885-2681/11
Matrix: Water
Analysis Batch: 2681

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000500	0.000505		mg/L		101	50 - 150
Thallium	0.000250	0.000263		mg/L		105	50 - 150

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MRL 885-3019/9-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3019

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000150	ND		mg/L		69	50 - 150

Lab Sample ID: MB 885-3020/1-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3020

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		04/10/24 10:28	04/11/24 13:03	1

Lab Sample ID: LCS 885-3020/3-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00487		mg/L		97	85 - 115

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LLCS 885-3020/2-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3020

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000150	0.000111	J	mg/L		74	50 - 150

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

Lab Sample ID: MB 885-2642/1
Matrix: Water
Analysis Batch: 2642

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			04/02/24 11:29	1

Lab Sample ID: LCS 885-2642/2
Matrix: Water
Analysis Batch: 2642

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1020		mg/L		102	80 - 120

Method: 9067 - Phenolics, Total Recoverable

Lab Sample ID: MB 885-2579/1-B
Matrix: Water
Analysis Batch: 2665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2579

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		3.0	ug/L		04/02/24 06:51	04/02/24 14:15	1

Lab Sample ID: LCS 885-2579/2-B
Matrix: Water
Analysis Batch: 2665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	20.0	14.9		ug/L		75	44 - 108

Lab Sample ID: LCSD 885-2579/3-B
Matrix: Water
Analysis Batch: 2665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenolics, Total Recoverable	20.0	15.9		ug/L		80	44 - 108	6	20

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 860-154161/24
Matrix: Water
Analysis Batch: 154161

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0050	mg/L			04/10/24 13:21	1

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate (Continued)

Lab Sample ID: LCS 860-154161/26
Matrix: Water
Analysis Batch: 154161

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0957		mg/L		96	90 - 110

Lab Sample ID: LLCS 860-154161/25
Matrix: Water
Analysis Batch: 154161

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.00529		mg/L		53	50 - 150

Lab Sample ID: 885-2017-1 MS
Matrix: Water
Analysis Batch: 154161

Client Sample ID: MW1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	0.100	0.0857	F1	mg/L		86	90 - 110

Lab Sample ID: 885-2017-1 MSD
Matrix: Water
Analysis Batch: 154161

Client Sample ID: MW1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	0.100	0.0917		mg/L		92	90 - 110	7	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-2999/2
Matrix: Water
Analysis Batch: 2999

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			04/09/24 14:32	1
Bicarbonate Alkalinity as CaCO3	ND		20		mg/L			04/09/24 14:32	1
Carbonate Alkalinity as CaCO3	ND		2.0		mg/L			04/09/24 14:32	1

Lab Sample ID: MB 885-2999/48
Matrix: Water
Analysis Batch: 2999

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	ND		20		mg/L			04/09/24 23:38	1
Bicarbonate Alkalinity as CaCO3	ND		20		mg/L			04/09/24 23:38	1
Carbonate Alkalinity as CaCO3	ND		2.0		mg/L			04/09/24 23:38	1

Lab Sample ID: LCS 885-2999/3
Matrix: Water
Analysis Batch: 2999

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	84.8	78.2		mg/L		92	90 - 110

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 885-2999/49
Matrix: Water
Analysis Batch: 2999

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	84.8	78.8		mg/L		93	90 - 110

Lab Sample ID: MRL 885-2999/1
Matrix: Water
Analysis Batch: 2999

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	21.2	22.9		mg/L		108	50 - 150

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-655144/1-A
Matrix: Water
Analysis Batch: 658854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 655144

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.05409	U	0.105	0.105	1.00	0.248	pCi/L	04/03/24 10:04	04/26/24 15:08	1

Lab Sample ID: LCS 160-655144/2-A
Matrix: Water
Analysis Batch: 658854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 655144

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	9.980		1.20	1.00	0.198	pCi/L	88	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.0*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-655146/1-A
Matrix: Water
Analysis Batch: 658668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 655146

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1146	U	0.242	0.243	1.00	0.502	pCi/L	04/03/24 10:09	04/25/24 12:03	1

Lab Sample ID: LCS 160-655146/2-A
Matrix: Water
Analysis Batch: 658668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 655146

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.00	8.440		1.21	1.00	0.558	pCi/L	94	75 - 125

QC Sample Results

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-655146/2-A
Matrix: Water
Analysis Batch: 658668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 655146

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.0		30 - 110
Y Carrier	78.9		30 - 110

QC Association Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

GC/MS VOA

Analysis Batch: 2765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	8260B	
885-2017-2	Trip Blank	Total/NA	Water	8260B	
MB 885-2765/3	Method Blank	Total/NA	Water	8260B	
LCS 885-2765/2	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 2836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	8260B	
MB 885-2836/4	Method Blank	Total/NA	Water	8260B	
LCS 885-2836/3	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 2561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	3510C	
MB 885-2561/1-A	Method Blank	Total/NA	Water	3510C	
LCS 885-2561/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 885-2561/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 3961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	8270C SIM	2561
MB 885-2561/1-A	Method Blank	Total/NA	Water	8270C SIM	2561
LCS 885-2561/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	2561
LCSD 885-2561/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	2561

GC Semi VOA

Prep Batch: 2567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	3510C	
MB 885-2567/1-A	Method Blank	Total/NA	Water	3510C	
LCS 885-2567/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 885-2567/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 2602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	504.1	
885-2017-2	Trip Blank	Total/NA	Water	504.1	
MB 885-2602/3-A	Method Blank	Total/NA	Water	504.1	
LCS 885-2602/4-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 885-2602/1-A	Lab Control Sample	Total/NA	Water	504.1	

Analysis Batch: 2698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	504.1	2602
885-2017-2	Trip Blank	Total/NA	Water	504.1	2602
MB 885-2602/3-A	Method Blank	Total/NA	Water	504.1	2602
LCS 885-2602/4-A	Lab Control Sample	Total/NA	Water	504.1	2602
MRL 885-2602/1-A	Lab Control Sample	Total/NA	Water	504.1	2602

QC Association Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

GC Semi VOA

Analysis Batch: 2880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	8082A	2567
MB 885-2567/1-A	Method Blank	Total/NA	Water	8082A	2567
LCS 885-2567/2-A	Lab Control Sample	Total/NA	Water	8082A	2567
LCSD 885-2567/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	2567

HPLC/IC

Analysis Batch: 2546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	300.0	
885-2017-1	MW1	Total/NA	Water	300.0	
MB 885-2546/4	Method Blank	Total/NA	Water	300.0	
LCS 885-2546/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-2546/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 2547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	300.0	
MB 885-2547/4	Method Blank	Total/NA	Water	300.0	
LCS 885-2547/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-2547/3	Lab Control Sample	Total/NA	Water	300.0	

Metals

Analysis Batch: 2543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Dissolved	Water	200.7 Rev 4.4	
885-2017-1	MW1	Dissolved	Water	200.7 Rev 4.4	
MB 885-2543/16	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-2543/18	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-2543/23	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-2543/13	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 2681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Dissolved	Water	200.8	
MB 885-2681/12	Method Blank	Total/NA	Water	200.8	
MB 885-2681/39	Method Blank	Total/NA	Water	200.8	
LCS 885-2681/40	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-2681/10	Lab Control Sample	Total/NA	Water	200.8	
MRL 885-2681/11	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 3019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-3019/9-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 3020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	245.1	
MB 885-3020/1-A	Method Blank	Total/NA	Water	245.1	
LCS 885-3020/3-A	Lab Control Sample	Total/NA	Water	245.1	
LLCS 885-3020/2-A	Lab Control Sample	Total/NA	Water	245.1	

QC Association Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Metals

Analysis Batch: 3200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	245.1	3020
MB 885-3020/1-A	Method Blank	Total/NA	Water	245.1	3020
LCS 885-3020/3-A	Lab Control Sample	Total/NA	Water	245.1	3020
LLCS 885-3020/2-A	Lab Control Sample	Total/NA	Water	245.1	3020
MRL 885-3019/9-A	Lab Control Sample	Total/NA	Water	245.1	3019

General Chemistry

Prep Batch: 2579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	Distill/Phenol	
MB 885-2579/1-B	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 885-2579/2-B	Lab Control Sample	Total/NA	Water	Distill/Phenol	
LCSD 885-2579/3-B	Lab Control Sample Dup	Total/NA	Water	Distill/Phenol	

Analysis Batch: 2642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	2540C	
MB 885-2642/1	Method Blank	Total/NA	Water	2540C	
LCS 885-2642/2	Lab Control Sample	Total/NA	Water	2540C	

Cleanup Batch: 2651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	9067	2579
MB 885-2579/1-B	Method Blank	Total/NA	Water	9067	2579
LCS 885-2579/2-B	Lab Control Sample	Total/NA	Water	9067	2579
LCSD 885-2579/3-B	Lab Control Sample Dup	Total/NA	Water	9067	2579

Analysis Batch: 2665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	9067	2651
MB 885-2579/1-B	Method Blank	Total/NA	Water	9067	2651
LCS 885-2579/2-B	Lab Control Sample	Total/NA	Water	9067	2651
LCSD 885-2579/3-B	Lab Control Sample Dup	Total/NA	Water	9067	2651

Analysis Batch: 2999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	SM 2320B	
MB 885-2999/2	Method Blank	Total/NA	Water	SM 2320B	
MB 885-2999/48	Method Blank	Total/NA	Water	SM 2320B	
LCS 885-2999/3	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 885-2999/49	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 885-2999/1	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 3000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 154161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	Kelada 01	

QC Association Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

General Chemistry (Continued)

Analysis Batch: 154161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-154161/24	Method Blank	Total/NA	Water	Kelada 01	
LCS 860-154161/26	Lab Control Sample	Total/NA	Water	Kelada 01	
LLCS 860-154161/25	Lab Control Sample	Total/NA	Water	Kelada 01	
885-2017-1 MS	MW1	Total/NA	Water	Kelada 01	
885-2017-1 MSD	MW1	Total/NA	Water	Kelada 01	

Rad

Prep Batch: 655144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	PrecSep-21	
MB 160-655144/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-655144/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 655146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2017-1	MW1	Total/NA	Water	PrecSep_0	
MB 160-655146/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-655146/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Client Sample ID: MW1
Date Collected: 03/28/24 08:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2765	CM	EET ALB	04/04/24 03:53
Total/NA	Analysis	8260B		20	2836	CM	EET ALB	04/04/24 19:41
Total/NA	Prep	3510C			2561	JM	EET ALB	04/01/24 12:47
Total/NA	Analysis	8270C SIM		1	3961	SB	EET ALB	04/26/24 01:36
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:39
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/02/24 16:16
Total/NA	Prep	3510C			2567	JM	EET ALB	04/01/24 13:57
Total/NA	Analysis	8082A		1	2880	PD	EET ALB	04/05/24 13:58
Total/NA	Analysis	300.0		1	2546	SS	EET ALB	03/29/24 14:11
Total/NA	Analysis	300.0		1	2547	SS	EET ALB	03/29/24 14:11
Total/NA	Analysis	300.0		20	2546	SS	EET ALB	03/29/24 14:23
Dissolved	Analysis	200.7 Rev 4.4		1	2543	VP	EET ALB	04/01/24 09:18
Dissolved	Analysis	200.7 Rev 4.4		5	2543	VP	EET ALB	04/01/24 09:20
Dissolved	Analysis	200.8		1	2681	BV	EET ALB	04/02/24 14:45
Total/NA	Prep	245.1			3020	JR	EET ALB	04/10/24 10:28
Total/NA	Analysis	245.1		1	3200	JR	EET ALB	04/11/24 13:37
Total/NA	Analysis	2540C		1	2642	JU	EET ALB	04/02/24 11:29
Total/NA	Prep	Distill/Phenol			2579	JM	EET ALB	04/02/24 06:51
Total/NA	Cleanup	9067			2651	JM	EET ALB	04/02/24 12:16 - 04/02/24 14:15 [1]
Total/NA	Analysis	9067		1	2665	JM	EET ALB	04/02/24 14:15
Total/NA	Analysis	Kelada 01		1	154161	ADL	EET HOU	04/10/24 13:30
Total/NA	Analysis	SM 2320B		1	2999	DL	EET ALB	04/10/24 00:45
Total/NA	Analysis	SM 4500 H+ B		1	3000	DL	EET ALB	04/10/24 00:45
Total/NA	Prep	PrecSep-21			655144	KAK	EET SL	04/03/24 10:04
Total/NA	Analysis	903.0		1	658856	SCB	EET SL	04/26/24 15:01
Total/NA	Prep	PrecSep_0			655146	KAK	EET SL	04/03/24 10:09
Total/NA	Analysis	904.0		1	658667	SCB	EET SL	04/25/24 12:02

Client Sample ID: Trip Blank
Date Collected: 03/28/24 00:00
Date Received: 03/29/24 07:55

Lab Sample ID: 885-2017-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2765	CM	EET ALB	04/04/24 04:18
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:39
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/02/24 16:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4		Water	Aluminum
200.7 Rev 4.4		Water	Barium
200.7 Rev 4.4		Water	Beryllium
200.7 Rev 4.4		Water	Boron
200.7 Rev 4.4		Water	Cadmium
200.7 Rev 4.4		Water	Chromium
200.7 Rev 4.4		Water	Cobalt
200.7 Rev 4.4		Water	Copper
200.7 Rev 4.4		Water	Iron
200.7 Rev 4.4		Water	Manganese
200.7 Rev 4.4		Water	Molybdenum
200.7 Rev 4.4		Water	Nickel
200.7 Rev 4.4		Water	Silver
200.7 Rev 4.4		Water	Zinc
200.8		Water	Antimony
200.8		Water	Arsenic
200.8		Water	Lead
200.8		Water	Selenium
200.8		Water	Thallium
200.8		Water	Uranium
245.1	245.1	Water	Mercury
2540C		Water	Total Dissolved Solids
300.0		Water	Bromide
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
504.1	504.1	Water	1,2-Dibromoethane (EDB)
8082A	3510C	Water	PCB-1016
8082A	3510C	Water	PCB-1221
8082A	3510C	Water	PCB-1232
8082A	3510C	Water	PCB-1242
8082A	3510C	Water	PCB-1248
8082A	3510C	Water	PCB-1254
8082A	3510C	Water	PCB-1260
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene

Accreditation/Certification Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)

Accreditation/Certification Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
8270C SIM	3510C	Water	1-Methylnaphthalene
8270C SIM	3510C	Water	2-Methylnaphthalene
8270C SIM	3510C	Water	Atrazine
8270C SIM	3510C	Water	Benzo[a]pyrene
8270C SIM	3510C	Water	Naphthalene
8270C SIM	3510C	Water	Pentachlorophenol
9067	Distill/Phenol	Water	Phenolics, Total Recoverable
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Total Alkalinity as CaCO3
SM 4500 H+ B		Water	pH

Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
504.1	504.1	Water	1,2-Dibromoethane (EDB)
8270C SIM	3510C	Water	1-Methylnaphthalene
8270C SIM	3510C	Water	Atrazine
8270C SIM	3510C	Water	Pentachlorophenol
9067	Distill/Phenol	Water	Phenolics, Total Recoverable
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Accreditation/Certification Summary

Client: Wayne Price LLC
Project/Site: BW04 MW1

Job ID: 885-2017-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain-of-Custody Record

Client: Wasserhund Inc.

Mailing Address: PRICE LLC 7 SYCAMORE LN ALENWOOD NM 88039

Phone #: 1-505-715-2809

email or Fax#: WayNepriceJr.com@gmail.com

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
■ Standard ☐ Rush

Project Name: BW04 MW 1

Project #: #1

Project Manager: Lester Wayne Price Jr.

Sampler: LESTER WAYNE PRICE JR

On Ice: ☒ Yes ☐ No

# of Coolers: 1 mostly

Cooler Temp(Including CF): 1.1 -0.1 = 1.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-2017 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	WQCC 31 03 PARTA&B	OCD MEN CHEM				
3/28/24	8:00AM	LIQUID	MW 1	SEE LIST		-1											X					
3/28/24	8:00 AM	LIQUID	MW 1	SEE LIST														X				
						-2 TB																

Date	Time	Relinquished by:	Received by	Via.	Date	Time
3/28/24	3:55 PM	LESTER WAYNE PRICE JR			3/28/24	1555
3/29/24	1900			courier	3/29/24	755

Remarks:
ALL ON ICE
SEE HEAL ATTACHED LIST

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

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Shaw, Tiffany	Carrier Tracking No(s):	COC No: 885-262.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: tiffany.shaw@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-2017-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/10/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: BW04 MW1	Project #: 88501264			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Ra-226	904.0/PrecSep_0 Rad-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW1 (885-2017-1)	3/28/24	08:00 Mountain		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/1/24 13:58				
2	Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: APR 02 2024 0855	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Shaw Tiffany	Carrier Tracking No(s):	COC No: 885-272.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: tiffany.shaw@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Oregon State New Mexico		Job #: 885-2017 1
Address: 4145 Greenbriar Dr	Due Date Requested: 4/9/2024			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: BW04 MW1	Project #: 88501264			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Kelada_01	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW1 (885-2017 1)	3/28/24	08 00 Mountain		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/2/24 14:11	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: CG	Date/Time: 4/3/24 0434	Company E

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.9°

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Wayne Price LLC Job Number: 885-2017-1

Login Number: 2017 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Lowman, Nick

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Wayne Price LLC

Job Number: 885-2017-1

Login Number: 2017
List Number: 3
Creator: Grandits, Corey

List Source: Eurofins Houston
List Creation: 04/03/24 12:34 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Wayne Price LLC

Job Number: 885-2017-1

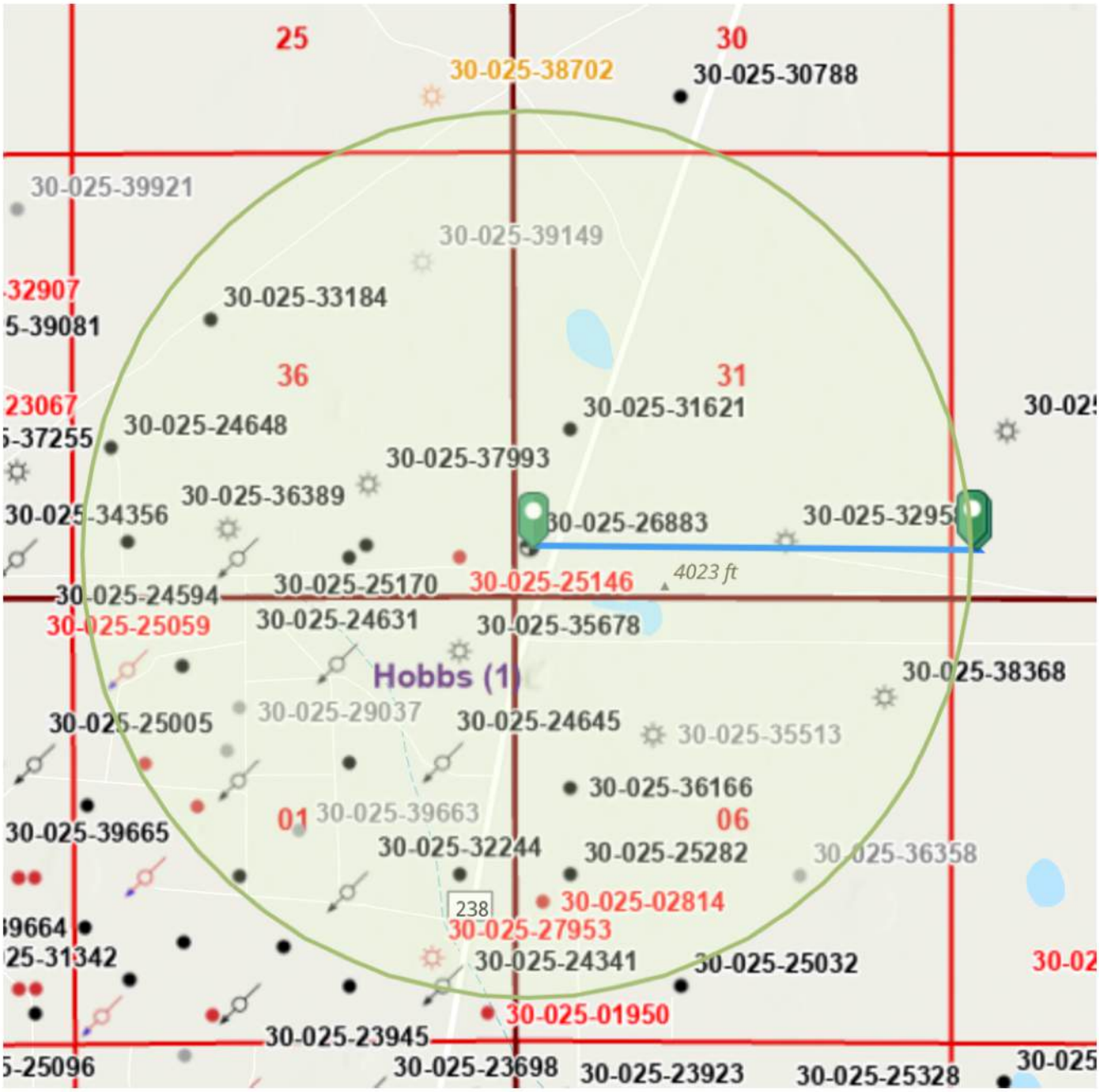
Login Number: 2017
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 04/02/24 01:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C- AOR Maps

One Mile AOR


25
30
30-025-38702
30-025-30788
30-025-39921
30-025-39149
30-025-33184
36
31
30-025-31621
30-025-24648
30-025-37993
30-025-36389
30-025-34356
30-025-26883
4023 ft
30-025-24594
30-025-25170
30-025-25146
30-025-25059
30-025-24631
30-025-35678
Hobbs (1)
30-025-38368
30-025-25005
30-025-29037
30-025-24645
30-025-35513
30-025-36166
01
30-025-39663
06
30-025-39665
30-025-32244
30-025-25282
30-025-36358
238
30-025-02814
30-025-27953
30-025-24341
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30-025-01950
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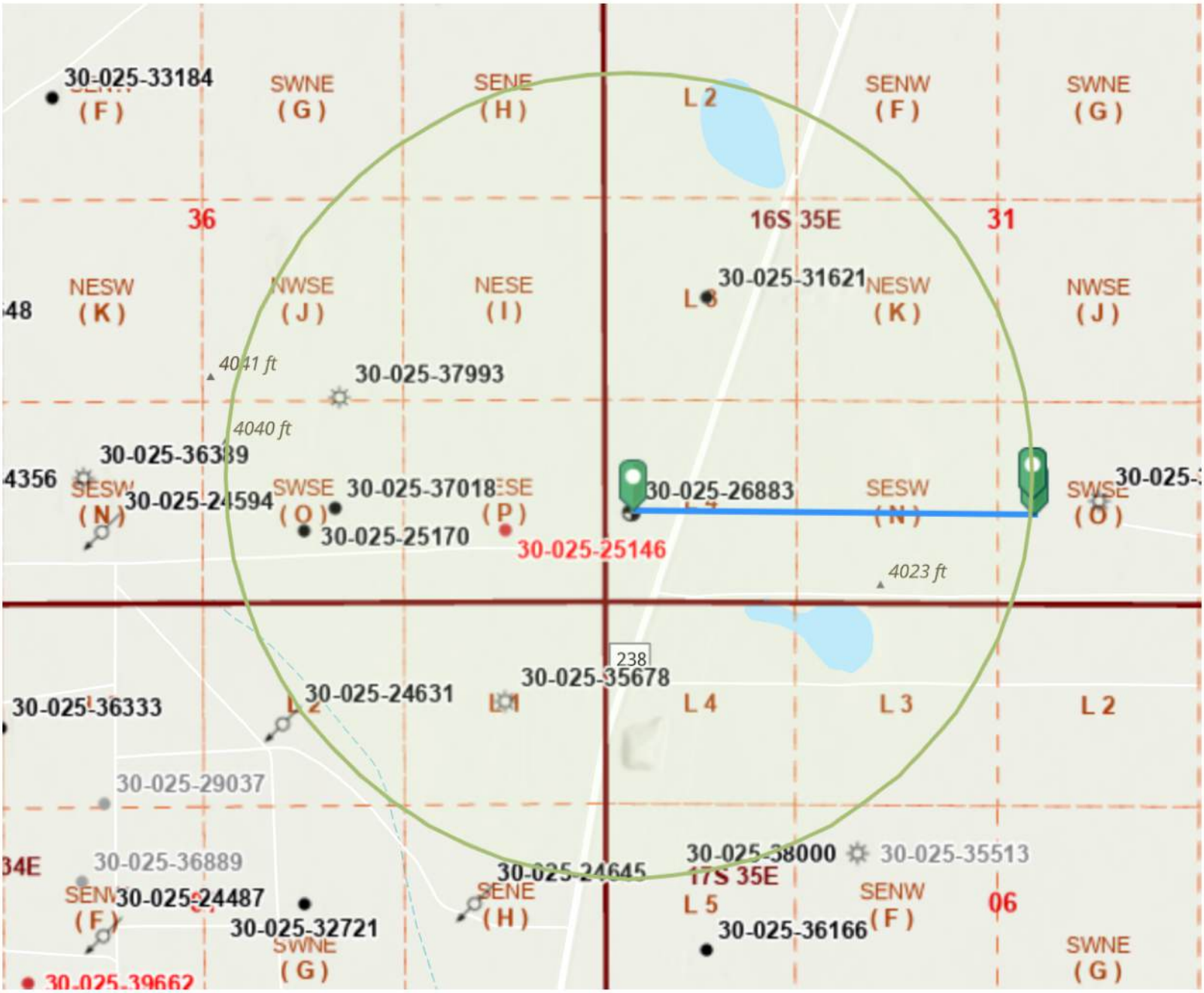
30-025-23698
30-025-23923
30-025-25328

1/2 Mile AOR


30-025-33184
SWNE (G)
SENE (H)
L 2
SENW (F)
SWNE (G)
36
16S 35E
31
30-025-31621
NESW (K)
NWSE (J)
NESE (I)
NESW (K)
NWSE (J)
4041 ft
30-025-37993
4040 ft
30-025-36389
30-025-24594
SWSE (O)
30-025-37018
30-025-25170
30-025-25146
30-025-26883
SESW (N)
SWSE (O)
4023 ft
238
30-025-35678
30-025-24631
30-025-36333
L 4
L 3
L 2
30-025-29037
30-025-36889
30-025-24645
30-025-38000
30-025-35513
17S 35E
30-025-24487
30-025-32721
SENE (H)
L 5
SENW (F)
06
30-025-36166
SWNE (G)
30-025-39662

Well List for one Mile (1) Radius around Wasserhund BW-04
as of June 8, 2025 per OCD well records

			Well API#	Well Name	Operator	Location
	1	xxx	30-025-26883	EIDSON STATE #001	WASSERHUND INC	M-31-16S-35E
1/2 mile	1	xxx	30-025-31621	VACUUM 9205 JV-P #001H	BTA OIL PRODUCERS, LLC	L-31-16S-35E
	1	xxx	30-025-32958	VACUUM 31 #001	FAE II Operating LLC	O-31-16S-35E
	3					
	1	xxx	30-025-02814	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	L-6-17S-35E
	1	xxx	30-025-25282	STATE K 6119 COM #001	SOUTHWEST ROYALTIES INC	L-6-17S-35E
	1	xxx	30-025-35513	KAGEBRUSH #001	SAGE ENERGY CO	F-6-17S-35E
	1	xxx	30-025-36166	SAGEBRUSH #001H	Unitex Oil & Gas, L.L.C.	E-6-17S-35E
	1	xxx	30-025-36358	STATE SECTION 6 #002	SOUTHWEST ROYALTIES INC	J-6-17S-35E
	1	added	30-025-38000	ENCORE 6 STATE COM #001	BREITBURN OPERATING LP	F-6-17S-35E
	1	xxx	30-025-38368	ENCORE 6 STATE COM #002	BREITBURN OPERATING LP	A-6-17S-35E
	7					
	1	xxx	30-025-24594	NORTH VACUUM ABO NORTH UNIT #001	Unitex Oil & Gas, L.L.C.	N-36-16S-34E
	1	xxx	30-025-24648	NORTH VACUUM ABO NORTH UNIT #162	Unitex Oil & Gas, L.L.C.	L-36-16S-34E
1/2 mile	1	xxx	30-025-25146	NORTH VACUUM ABO NORTH UNIT #001	Redwood Operating LLC	P-36-16S-34E
1/2 mile	1	xxx	30-025-25170	NORTH VACUUM ABO NORTH UNIT #002	Unitex Oil & Gas, L.L.C.	O-36-16S-34E
	1	xxx	30-025-33184	EUREKA 36 STATE #001	SPECIAL ENERGY CORP	F-36-16S-34E
	1	xxx	30-025-34356	NORTH VACUUM ABO NORTH UNIT #163H	Unitex Oil & Gas, L.L.C.	M-36-16S-34E
	1	xxx	30-025-36389	EUREKA 36 STATE #002	SPECIAL ENERGY CORP	N-36-16S-34E
1/2 mile	1	xxx	30-025-37018	NORTH VACUUM ABO NORTH UNIT #123H	Unitex Oil & Gas, L.L.C.	O-36-16S-34E
1/2 mile	1	xxx	30-025-37993	ENCORE 36 STATE #001	BREITBURN OPERATING LP	J-36-16S-34E
	1	xxx	30-025-39149	ENCORE 36 STATE #002A	QUANTUM RESOURCES MANAGEMENT, LLC	A-36-16S-34E
	10					
			PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR		M-1-17S-34E
	1	xxx	30-025-01949	PRE-ONGARD WELL #002	PRE-ONGARD WELL OPERATOR	N-1-17S-34E
	1	xxx	30-025-24176	NORTH VACUUM ABO NORTH UNIT #001	Unitex Oil & Gas, L.L.C.	J-1-17S-34E
	1	xxx	30-025-24341	NORTH VACUUM ABO NORTH UNIT #001	Unitex Oil & Gas, L.L.C.	P-1-17S-34E
	1	xxx	30-025-24487	NORTH VACUUM ABO NORTH UNIT #001	Unitex Oil & Gas, L.L.C.	F-1-17S-34E
	1	xxx	30-025-24631	NORTH VACUUM ABO NORTH UNIT #001H	Unitex Oil & Gas, L.L.C.	B-1-17S-34E
	1	xxx	30-025-24645	NORTH VACUUM ABO NORTH UNIT #002	Unitex Oil & Gas, L.L.C.	H-1-17S-34E
	1	xxx	30-025-25059	NORTH VACUUM ABO NORTH UNIT #001	Unitex Oil & Gas, L.L.C.	D-1-17S-34E
	1	xxx	30-025-25206	NORTH VACUUM ABO NORTH UNIT #002	Unitex Oil & Gas, L.L.C.	E-1-17S-34E
	1	xxx	30-025-27953	STATE VI #001	CHESAPEAKE OPERATING, INC.	P-1-17S-34E
	1	xxx	30-025-29037	PRE-ONGARD WELL #001	PRE-ONGARD WELL OPERATOR	C-1-17S-34E
	1	xxx	30-025-32243	NORTH VACUUM ABO NORTH UNIT #002	Unitex Oil & Gas, L.L.C.	K-1-17S-34E
	1	xxx	30-025-32244	NORTH VACUUM ABO NORTH UNIT #002	Unitex Oil & Gas, L.L.C.	
	1	xxx	30-025-32721	NORTH VACUUM ABO NORTH UNIT #073	Unitex Oil & Gas, L.L.C.	G-1-17S-34E
1/2 mile	1	xxx	30-025-35678	NORTH VACUUM ABO NORTH UNIT #062	Unitex Oil & Gas, L.L.C.	A-1-17S-34E
	1	xxx	30-025-36333	BUCKEYE 1 STATE #001	FASKEN OIL & RANCH LTD	D-1-17S-34E
	1	xxx	30-025-36889	BUCKEYE 1 STATE #002C	FASKEN OIL & RANCH LTD	F-1-17S-34E
	1	xxx	30-025-39662	NORTH VACUUM ABO NORTH UNIT #012	Redwood Operating LLC	F-1-17S-34E
	1	xxx	30-025-39663	NORTH VACUUM ABO NORTH UNIT #033	SHERIDAN PRODUCTION COMPANY, LLC	J-1-17S-34E
6	18		Wells			
	38		Total Wells			

Appendix D

C-105s (Well Completion Reports) and some P&A reports C-103s

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised March 25, 1999

WELL API NO. 30-025-31621
5. Indicate Type of Lease STATE ☒ FEE ☐
State Oil & Gas Lease No. V-3836

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER
b. Type of Completion: NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☒ OTHER add legs

7. Lease Name or Unit Agreement Name: Vacuum, 9205 JV-P Com

2. Name of Operator: BTA Oil Producers

8. Well No. 1

3. Address of Operator: 104 S. Pecos, Midland, TX 79701 (915) 682-3753

9. Pool name or Wildcat: Vacuum, North (ABO)

4. Well Location
BHL #1 427/N & 1946/W C-31-16S-35E
BHL #2 766/S & 1960/W N-31-16S-35E
Unit Letter L : 1980 Feet From The south Line and 660 Feet From The west Line
Section 31 Township 16S Range 35E NMPM Lea County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF& RKB, RT, GR, etc.)	14. Elev. Casinghead
06/08/06 -Reentry	07/07/06	8/15/06	4025' GR 4042' RKB	---

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
12,900' TVD	12,260 '	N/A		N/A	N/A

19. Producing Interval(s), of this completion - Top, Bottom, Name
8570-10529' (MD); 8730-12006' (MD); 8828-41'; 8870-74'; 8907-12'; 8918-20'

20. Was Directional Survey Made: Yes

21. Type Electric and Other Logs Run: ---

22. Was Well Cored: ---

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68#	423'	17-1/2"	480 sx	Circ
8-5/8"	32#	4795'	11"	2500 sx	Circ
5-1/2"	17 & 20#	12900'	7-7/8"	2100 sx	Circ
		CIBP @	12300'		

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	9133'	---

26. Perforation record (interval, size, and number)
8870 – 74', 8907 – 12', 8918 – 20' (orig)
8730-12006' (MD) Lateral #1
8570-10529' (MD) Lateral #2

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8870 - 8920'	A w/11000 gal 20% NeFe (orig)
8730-12006'	A w/35580 gal 15% HCl
9250-10250' Lat #2	A w/13000 gal 15% HCl

28 **PRODUCTION**

Date First Production: 8/15/06 (rework)
Production Method (*Flowing, gas lift, pumping - Size and type pump*): Pumping 2-1/2"x1-1/2"x24' RHBC
Well Status (*Prod. or Shut-in*): Producing

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
8/29/06	24	N/A		121	109	88	900

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (*Corr.*)
---	---		121	109	88	49.8

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*): Sold
Test Witnessed By: Tom Williams

30. List Attachments: C116

31. *I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief*

Signature Pam Inskeep Printed Name Pam Inskeep Title Regulatory Administrator Date 9/8/2006

KZ

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	11781'	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss	12504'	T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Otzte	
T. Glorieta	6224'	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T.Tubb	7518'	T. Delaware Sand		T.Todilto		T	
T. Drinkard		T. Bone Springs		T. Entrada		T.	
T. Abo	8185'	T.		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn		T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from...8870.....to.....8920..... No. 3, from.....8570.....to.....10529.....

No. 2, from...8730.....to.....12006..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
Surf	423	423	Surface rock & sand				
423	1800	1377	Anhydrite				
1800	3015	1665	Salt & Anhydrite				
3015	4105	1090	Shale & Anhydrite				
4105	5890	1785	Anhydrite, Dolomite, Shale & Sand				
5890	6815	925	Dolomite & Shale				
6815	8875	2060	Dolomite				
8875	9755	880	Dolomite, Anhydrite & Lime				
9755	10134	379	Lime & Chert				
10134	12045	1911	Lime & Shale				
12045	12900	855	Lime, Sand & Shale				

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
July 17, 2008

1. WELL API NO.
30-025-35678

2. Type of Lease
☒ STATE ☐ FEE ☐ FED/INDIAN

3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☒ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name
NORTH VACUUM ABO NORTH UNIT

6. Well Number: **#62**

7. Type of Completion:
☐ NEW WELL ☒ WORKOVER ☐ DEEPENING ☒ PLUGBACK ☒ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator: **LIME ROCK RESOURCES II-A, L.P.**

9. OGRID: 277558

10. Address of Operator: c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401

11. Pool name or Wildcat:
North Vacuum (Abo) (61760)

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	A	1	17-S	34-E		660	North	660	East	Lea
BH:										

13. Date Spudded	14. Date T.D. Reached	15. Date Drilling Rig Released	16. Date Completed (Ready to Produce	17. Elevations (DF and RKB,
9/3/01	10/12/01	10/14/01	WO: 6/27/16	RT, GR, etc.): 4033' GR

18. Total Measured Depth of	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
12750'	9110'	Yes	Induction, Density, CBLs

22. Producing Interval(s), of this completion - Top, Bottom, Name
8857'-8865', 8873'-8875', 8887'-8897', 8904'-8914' - Abo

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	42#	1610'	14-3/4"	550sx PozC+250sxC	0'
8-5/8"	32#	5020'	11"	950sx50:50Poz+240sxC	0'
4-1/2"	11.6#	12750'	7-7/8"	380sxH+900sxPozH+100sxC	0'

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	9070'	

26. Perforation record (interval, size, and number)
Abo: 8857'-8865', 8873'-8875', 8887'-8897', & 8904'-8914' w/3 spf

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
9175'-4 SQ holes	Sq w/180 sx "C" cmt.
8630'-4 SQ holes	SQ w/50 sx cmt
8857'-8914'	1500 gal 15% HCL, 10,500 gal gelled acid, 1470 gal rocksalt, & 10,500 gal gelled acid

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
READY	Pumping	Pumping

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period:	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Within 30 days							

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
To Be Sold

30. Test Witnessed By:
Jerry Smith

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude Longitude NAD 1927 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Mike Pippin Printed Name Mike Pippin Title: Petroleum Engineer Date: 7/7/16

E-mail Address: mike@pippinllc.com

KB

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised June 10, 2003

WELL API NO.
30-025-37993

5. Indicate Type of Lease
STATE X FEE ☐

State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL X DRY ☐ OTHER

b. Type of Completion:
NEW WELL X WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

7. Lease Name or Unit Agreement Name
Encore "36" State

2. Name of Operator
Encore Operating, L.P.

8. Well No.
1

3. Address of Operator
777 Main Street, Ste. 1400, Fort Worth, Tx. 76102

9. Pool name or Wildcat
Vacuum, Atoka-Morrow North (Gas)

Received
Hobbs OCD

4. Well Location
Unit Letter J : 1330 Feet From The South Line and 1750 Feet From The East Line

Section 36 Township 16S Range 34E NMPM Lea County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF& RKB, RT, GR, etc.)	14. Elev. Casinghead
8/20/06	10/21/06	12/5/06	4038 GR	

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
13030	12958'			X	

19. Producing Interval(s), of this completion - Top, Bottom, Name
Morrow 12479-12790

20. Was Directional Survey Made
NO

21. Type Electric and Other Logs Run
GR/CCL

22. Was Well Cored
NO

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	555	17 ½	440 sx circ	
8 5/8	32	4539	11	1565 sx circ	
5 1/2	17	12586	7 7/8	1050 sx + 350	
				TOC @ 5560'	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
3 ½	12534	1313028	50	

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	12440	12440

26. Perforation record (interval, size, and number)
12766-12781 6 spf (96 holes)
12758-12760 6 spf (12 holes)
12712-12717 6 spf (30 holes)
12482-12496 6 spf (84 holes)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12482-12496	No stimulation
12518'	Pkr w/plug
12712-12781	109000 gls 65Q fpa,+76000# 2040 baurite

28 **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
12/11/2006	*Flowing*	*Producing*

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
12/19/2006	24	11/64"	24	6	3527	0	

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*
5650	0		6	3527	0	

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
Sold

Test Witnessed By

30. List Attachments
Electric logs and inclination

31. *I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief*

Signature

Printed
Name Ann Burdette Wiley Title Sr. Regulatory Analyst Date 12/19/2006

E-mail Address awiley@encoreacq.com

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Received Hobbs SEP 2005

Form C-105
Revised June 10, 2003

WELL API NO. 30-025-37018

5. Indicate Type of Lease STATE ☑ FEE ☐

State Oil & Gas Lease No. B-936

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

b. Type of Completion: NEW WELL ☑ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

7. Lease Name or Unit Agreement Name: NORTH VACUUM ABO NORTH UNIT

2. Name of Operator: SAGE ENERGY COMPANY

8. Well No. 123

3. Address of Operator: P.O. Box 3068, Midland, TX. 79701

9. Pool name or Wildcat: NORTH VACUUM ABO

4. Well Location
Unit Letter O : 608 Feet From The SOUTH Line and 1777 Feet From The EAST Line
Section 36 Township 16-S Range 34-E NMPM LEA County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF& RKB, RT, GR, etc.)	14. Elev. Casinghead
3/30/05	6/10/05	8/10/05	4037' GR	4037'

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
8883'/8856'	N/A			ALL	

19. Producing Interval(s), of this completion - Top, Bottom, Name: (TVD) 8862'-83', Abo

20. Was Directional Survey Made: YES

21. Type Electric and Other Logs Run: CNL

22. Was Well Cored: NO

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	450	17 1/2	440sx PrePlus	
8 5/8	32	4063	11	1600sx PrePlus	
5 1/2	15.5 & 17	8748	7 7/8	850 sx	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	8694	N/A

26. Perforation record (interval, size, and number)
TWO LATERALS!
135°: 8980-10502
330°: 8721-10159

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8980-10502	65000 G 20% HCl

28 **PRODUCTION**

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
8/10/05	PUMP 2"x1 1/2"x28' RHBC	PROD.

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
9/22/05	24		24	33	15	10	455

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
	30		33	15	10	34

29. Disposition of Gas (Sold, used for fuel, vented, etc.): SOLD

Test Witnessed By: Eddie Elliott

30. List Attachments: C-103, C-104, C-116, DIRECTIONAL SURVEYS, CNL

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature George M. Harris Jr. Printed Name GEORGE M. HARRIS, JR. Title DIST. ENG. Date 9/27/05

KZ

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T.Tubb 7505	T. Delaware Sand	T.Todilto	T
T. Drinkard 7595	T. Bone Springs	T. Entrada	T.
T. Abo 8578	T.	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....

No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
7500	7595	95'	Sand				
7595	8700	1105'	Dolomite				

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: B-936

7. Unit Agreement Name:

8. Farm or Lease Name: Exxon "A" State

9. Well No.: 2

10. Field and Pool, or Wildcat: North Vacuum Abo

12. County: Lea

a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

2. Name of Operator: K. K. Amini

3. Address of Operator: P. O. Drawer 3068, Midland, Texas 79701

4. Location of Well: UNIT LETTER 0 LOCATED 460 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OF SEC. 36 TWP. 16S RGE. 34E NMPM

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
11/15/75	12/7/75	1/2/76	4038.1 GL	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
8950'			→	X	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 8818' - 8867'

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Sidewall Neutron Porosity Log

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1672'	12 1/4"	685 sks.	-0-
4 1/2"	10.5# &11.6#	8950'	7 7/8"	750 sks.	-0-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	8816'	

31. Perforation Record (Interval, size and number)

12 shots Select Fire .52
8818, 8819, 8841.5, 8849, 8849.5,
8853, 8854, 8855, 8856, 8856.5,
8866.5, 8867

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8818-8867	20,000 Gals. Acid

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
1/2/76	Pumping 2" x 1 1/4" x 18' RHBC	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
1/3/76	24			81	81	TSM	1000-1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
	40		81	81	TSM	36

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented

Test Witnessed By: Joel Lawhorn

35. List of Attachments: Sidewall Neutron Porosity Log

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED [signature] TITLE Comptroller DATE 1/8/76

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	8818	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T Cisco (Bough C)		T.		T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
8818'	8867	12	Abo				

District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division Hobbs District Office

BRADENHEAD TEST REPORT

Operator Name	API Number
Unitex Oil & Gas, L. L. C.	30-025-25170

Property Name	Well No.
NORTH VACUUM ABO NORTH UNIT 12A-2	002

Surface Location

UL - Lot	Section	Township	Range		Feet from	N/S Line	Feet From	E/W Line	County
O	36	16S	34E		460	S	1980	E	LEA

Well Status

TA'D WELL	SHUT-IN	INJECTOR	PRODUCER	DATE
YES (NO)	(YES) NO	INJ SWD	(OIL) GAS	8-7-23

OBSERVED DATA

	(A)Surface	(B)Interm(1)	(C)Interm(2)	(D)Prod Csng	(E)Tubing
Pressure	0	N/A	N/A	18	34
Flow Characteristics					
Puff	Y / (N)	Y / N	Y / N	Y / N	CO2 ___
Steady Flow	Y / (N)	Y / N	Y / N	Y / N	WTR ___
Surges	Y / (N)	Y / N	Y / N	Y / N	GAS ___
Down to nothing	(Y) / N	Y / N	Y / N	Y / (N)	Type of Fluid Injected for Waterflood if applies.
Gas or Oil	Y / (N)	Y / N	Y / N	Y / N	
Water	Y / (N)	Y / N	Y / N	Y / N	

Remarks – Please state for each string (A,B,C,D,E) pertinent information regarding bleed down or continuous build up if applies.

Signature: Lonnie Avery		OIL CONSERVATION DIVISION
Printed name: Lonnie Avery		Entered into RBDMS
Title: Supervisor		Re-test
E-mail Address:		
Date: 8-7-23	Phone: 325-574-5167	
	Witness:	

INSTRUCTIONS ON BACK OF THIS FORM

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

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

CONDITIONS

Action 281506

CONDITIONS

Operator: Unitex Oil & Gas, L.L.C. 508 W Wall Street, Suite 1000 Midland, TX 79701	OGRID: 373671
	Action Number: 281506
	Action Type: [UF-BHT] Bradenhead Test (BRADENHEAD TEST)

CONDITIONS

Created By	Condition	Condition Date
kfortner	None	1/8/2024

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: B-936

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name:

8. Farm or Lease Name: Exxon "A" State

9. Well No.: 1

2. Name of Operator: K. K. Amini

10. Field and Pool, or Wildcat: North Vacuum Abo

3. Address of Operator: P. O. Drawer 3068, Midland, Texas 79701

4. Location of Well: UNIT LETTER P LOCATED 460 FEET FROM THE South LINE AND 660 FEET FROM THE East LINE OF SEC. 36 TWP. 16S RGE. 34E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
10/19/75	11/13/75	12/1/75	4036.7 GL	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
8980'			→	X	

24. Producing Interval(s), of this completion -- Top, Bottom, Name: 8847' - 8897.5'

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Sidewall Neutron Porosity Log

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1680'	12 1/4"	760	-0-
4 1/2"	10.5# & 11.6#	8980'	7 7/8"	800	-0-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	8837	

31. Perforation Record (Interval, size and number)

17 shots Select Fire .46
8847, 8848, 8849, 8850, 8851, 8852, 8877, 8878, 8879, 8880, 8881, 8882, 8883, 8884, 8885, 8896.5, 8897.5

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8847 - 8897.5	20,000 gals. acid

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping – Size and type pump)	Well Status (Prod. or Shut-in)
12/1/75	Pumping 2" x 1 1/4" x 18' RHBC	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil – Bbl.	Gas – MCF	Water – Bbl.	Gas–Oil Ratio
12/2/75	24			95	93	TSM	975-1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil – Bbl.	Gas – MCF	Water – Bbl.	Oil Gravity – API (Corr.)
	35		95	93	TSM	36

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented

Test Witnessed By: Joel Lawhorn

35. List of Attachments: Sidewall Neotron Porosity Log

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED [signature] TITLE Comptroller DATE 12/3/75

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	8847	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T Cisco (Bough C)		T.		T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
8847	8897.5	17	Abo				

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd , Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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Form C-103
Revised August 1, 2011

WELL API NO. 30-025-25146
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: North Vacuum ABO Northunit 13-A
1. Type of Well: Oil Well [X] Gas Well [ ] Other
8. Well Number 4
2. Name of Operator: Sheridan Production Company, LLC
9. OGRID Number 252496
3. Address of Operator: 9 Greenway Plaza, Suite 300, Houston TX 77046
10. Pool name or Wildcat: Vacuum; ABO North
4. Well Location
Unit Letter P : 460 feet from the South line and 660 feet from the East line
Section 36 Township 17S Range 34E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	P AND A	[X]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPL	[ ]	CASING/CEMENT JOB	[ ]		
DOWNHOLE COMMINGLE	[ ]						
OTHER:	[ ]			OTHER:	[ ]		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

8-17-10 Notified BLM of Plugging
8-18-10 Mix & Spot 20sx Class "C" Cmt @ 1764' - WOC 4 Hrs - Tag Cmt @ 780'
8-18-10 Perf. Casing @ 575' - Circulate Cmt to Surf. of 8 5/8" Csng w/ 140sx Class "C"
8-19-10 Cut off w/H 3' BGL - Install Marker, RDMO

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cory Bruton TITLE Plugging Supervisor DATE 8-20-10

Type or print name Cory Bruton E-mail address: Kendall@tejastrucking.com PHONE: 4325235786

For State Use Only

APPROVED BY: Mahy L Brown TITLE Compliance Officer DATE 9/12/2012
Conditions of Approval (if any)

SEP 13 2012

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Response Required – Deadline Enclosed

15-May-12

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SHERIDAN PRODUCTION COMPANY, LLC
9 GREENWAY PLAZA SUITE 1300
HOUSTON TX 77046

LETTER OF VIOLATION - Inspection

Dear Operator,

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date(s) indicated

Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

INSPECTION DETAIL SECTION

NORTH VACUUM ABO NORTH UNIT No.001 P-36-16S-34E **30-025-25146-00-00**

Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
05/14/2012	Plugged Well Surface Restor	Maxey Brown	Yes	No	6/17/2012	iMGB1213557787

Comments on Inspection: DO NOT RELEASE. RULE 19.15.25.10 NEED TO MAKE ADDITONS TO P/A MARKER NEED UNIT LETTER OR FOOTAGE NEED TO SUBMIT C-103 SUBSEQUENT FOR PLUGGING ALSO THIS WELL IS IN THE 1YEAR TIME FRAME FOR CLEANUP AND RELEASE OF LOCAION REMOVE SIGN, MISC JUNK AND FLOWLINE AS INDICATED IN PHOTOS. THIS IS 1ST LETTER OF NON-COMPLIANCE MGB

No C-103 FILED AFTER P+A

NORTH VACUUM ABO NORTH UNIT No.123 O-36-16S-34E **30-025-37018-00-00**

Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
05/14/2012	Routine/Periodic	Maxey Brown	Yes	No	8/17/2012	iMGB1213558245

Violations
Absent Well Identification Signs (Rule 103)

Comments on Inspection: RULE 19.15.16.8 NEED TO INSTALL WELL SIGN THIS IS 1ST LETTER OF NON-COMPLIANCE MGB

MAY 15 2012

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

Sincerely,

Mateya Brown

COMPLIANCE OFFICER

Hobbs OCD District Office

Note: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data
*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas

Appendix E·

1. Subsidence Monument Report
2. Subsidence Survey Reports.

April 21, 2024

Reference: Wasserhund Inc Brine Well BW-04
Ul M-sec 31-Ts 16s-R 35e

Title: Subsidence Monitor(s) Report

This document contains the following elements:

1. BW-04 Subsidence install report.pdf
2. A Bertsen survey monitors Install instructions.pdf
3. BW-04 Sub MW Plat as built.pdf
4. Wasserhund BW-004 Vertical Subsidence Table (4-10-24).pdf
5. Photos-

Price LLC Subsidence Monitor Installation Report-

Annotated April 20, 2024

Glenn's Water Well Service, Inc.

8 South NM 206
PO Box 692
Tatum, NM 88267

Phone: 575-398-2424
Cell: 575-369-5145
Email: travis.glenn@outlook.com

12/18/23

Note: Price LLC was on-site as third party Witness and Acted as Quality Control Engineering Services.

3/4/24

Arrived on site at 9:00 AM and discussed the procedure to set the subsidence monuments with Wayne Price Jr. Using a Cat 299D3 Compact Track Loader equipped with a 12" rock tooth auger, we started drilling the holes for the monuments. We drilled through 3" of soil then 12" of loose caliche rock then we hit the hard pan (cap) of the caliche layer. It was extremely hard down to 36" then it soften and we drilled another 12". We elected to drill through the hard pan because the 9/16" stainless steel rod would not have been able to be driven through it. After cleaning out the bore hole, we mechanically drove 8.5' (including bottom point and datum) of SS rod using a tee post driver, finishing with the datum 2-3" below the surface. Monuments #1, #3 and #4 were similar in geology. Monument #2 had 12" of caliche on top of the soil that was put down during the cattle guard installation, below that it was similar to the other holes. After drilling the 4 holes and driving the stainless steel rods, we cleaned up the area and left. Wayne Jr. preferred not to purge and sample the monitor well until we finished with the monuments.

3/5/24

Arrived on site at 10:30 AM after going to Hobbs to get 56 – 50# bags of play sand from Home Depot. In each hole, we filled with clean play sand to 39" below the datum. Then we glued the yellow caps in the ends of the pink security sleeves and pumped ½ tube of grease in each sleeve. We then slid the sleeve over the SS rod and pushed it down to 3" below the datum. After that, we filled the hole with more sand stopping at 22" below ground level. The monument access covers would not fit inside the 6" schedule 40 PVC until I machined the aluminum insert off .065". We then attached the cover to the 6" X 24" PVC by drilling a hole through both and installing a #8 X 1" machine screw and nut. Following that, we set the PVC in the hole with the sleeve and rod inside of it leaving the top of the cap 1-2" above ground level to avoid rainwater running into the monument. We then mixed "Quikrete" cement and filled the annulus. After doming and finishing the cement we filled the inside of the PVC with clean play sand to within 2" of the top of the sleeve. Monuments #1, #3

and #4 used 6-50# bags of sand along with 5-80# bags of Quikrete. Monument #2 used 6-50# bags of sand and 8-80# bags of Quikrete. After discussing with Wayne Jr., we agreed to return on Thursday at 10:00 AM, cleaned the area and left at 4:30 PM.

3/7/24 Dressed up area:

Note for Clarification: There was some question concerning the depth of each rod, Price LLC made on-site recommendations to increase depth to a minimum of 8 ft.

Price LLC Photos of installation:

Berntsen International, Inc.
Marking the Boundaries of the Nations since 1972

NGS Three Dimensional Rod Monument Installation Instructions

GEOMETRIC GEODETIC ACCURACY STANDARDS
AND
SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES
FEDERAL GEODETIC CONTROL COMMITTEE
VERSION 5.0: May 11, 1988

APPENDIX H. - SPECIFICATIONS AND SETTING PROCEDURES FOR THREE DIMENSIONAL MONUMENTATION

A. MATERIALS REQUIRED FOR SETTING MONUMENT:
1. Rod, stainless steel, 4-foot (1220 mm) sections [SS91604]
2. Rod, stainless steel, one 4 inch (100 mm) [M1DPA]
3. Studs (threads), stainless steel [M13 thread]
4. Datum point, stainless steel [SSDP1]
5. Spiral (fluted) rod entry point, standard [SS-12 Point]
6. NGS logo caps, standard, aluminum [BMAC-1, -5, -6]
7. Pipe, schedule 40 PVC, 5 (or 6) inches (127 mm or 152 mm) inside diameter, 2-foot (610 mm) length [5PVC24] [6PVC24]
8. Pipe, schedule 40 PVC, 1 inch (25 mm) inside diameter, 3-foot (915 mm) length [TSS3]
9. Caps, schedule 50 PVC, (Slip-on caps centered and drilled to 0.567 inch [14 mm] ±0.002 [.05mm]) [TSSEC-Y]
10. Cement, for making concrete
11. Cement, PVC solvent [Eclectic® UV-6800]
12. Loctite (2 oz. bottle)
13. Grease-MIL SPEC G-10924D (B15395A, Grade 7) [Bel-Ray NO TOX AA-1-1]
14. Fine-grained washed or play sand
15. Grease Gun
16. * (Vise grips or pipe wrench (2) to tighten each rod section together)

B. SETTING PROCEDURES:
1. The time required to set an average mark using the following procedures is 1 to 2 hours.

2. Using the solvent cement [Eclectic UV-6800] formulated specifically for PVC, glue the aluminum logo cap [BMAC] to a 2-foot (610 mm) section of PVC pipe [5PVC24]. This will allow the glue to set while continuing with the following setting procedures.

3. Glue the PVC cap with a drill hole [TSSEC-Y] on one end of the 3-foot (915 mm) section of schedule 40 PVC pipe 1-inch (25 mm) inside diameter [TSS3]. Pump the PVC pipe full of grease. Thoroughly clean the open end of the pipe with a solvent which will remove grease. Then glue another cap with drill hole on the remaining open end. Set aside while continuing with the next step. *(*NOTE: This step can also be done in advance, prior to going into the field.)*

4. ***IMPORTANT:*** **Use proper eye and ear protection!** Using a power auger or post hole digger, drill or dig a hole in the ground 12 - 14 inches (300 mm - 350 mm) in diameter and 3-1/2 feet (1100 mm) deep.
5. Attach the standard spiral (fluted) rod entry point [SS-12 point] to one end of the 4-foot (1220 mm) section of stainless steel rod [SS-916-04] with the standard 3/8 inch (10 mm) stud [M-13 thread]. On the opposite end screw on a short 4 inch (100 mm) piece of rod [M-1 DPA] which will be used as the impact point for driving the rod. Drive this section of rod with a reciprocating driver such as a *Pionjar 120, Cobra 148, Wacker BHB 25* or another machine with an equivalent driving force.

6. Remove the short piece of rod used for driving [M-1-DPA] and screw in a new stud [M-13 thread]. Attach another 4-foot (1220 mm) section of rod [SS-916-04]. Tighten securely *(*using vise grips or pipe wrenches)*. Reattach the short piece of rod [M-1-DPA]and drive the new section into the ground.

7. Repeat step 6 until the rod refuses to drive further or until a driving rate of 60 seconds per foot (300 mm) is achieved. The top of the rod should terminate about 3 inches (75 mm) below ground surface.
8. When the desired depth of rod is reached, cut off the top removing the tapped and threaded portion of the rod leaving the top about 3 inches (75 mm) below ground surface. The top of the rod must be shaped to a smooth rounded (hemispherical) top, using a portable grinding machine to produce a datum point. The datum point must then be center punched to provide a plumbing (centering) point. NOTE: For personnel that may not have the proper cutting or grinding equipment to produce the datum point, the following alternative procedure should be used if absolutely necessary. When the desired depth of the rod is obtained (an even 4-foot [1220 mm] section), thoroughly clean the thread with a solvent to remove any possible remains of grease or oil that may have been used when the rod was tapped. Coat the threads of the datum point with Loctite and screw the datum point into the rod. Tighten the point firmly with vise grips to make sure it is secure. The datum point is a stainless steel 3/8 inch (10 mm) bolt [SSDP-1] with the head precisely machined to 9/16 inch (14 mm).

9. Insert the grease filled 3-foot (915 mm) section of 1-inch (25 mm) PVC pipe sleeve [TSS3] over the rod. The rod and datum point should protrude through the sleeve about 3 inches (75 mm).

10. Backfill and pack with fine-grained washed or play sand around the sleeve [TSS3] to about 20 inches (500 mm) below surface. Place the 5-inch (127 mm) PVC [5PVC24] and logo cap [BMAC] over and around the 1-inch (25 mm) sleeve [TSS3] and rod. The datum point [SSDP-1] should be about 3 inches (75 mm) below the cover of the logo cap.

11. Place concrete around the outside of the 5-inch (127 mm) PVC [5PVC24] and logo cap [BMAC], up to the top of logo cover. Trowel the concrete until a smooth neat finish is produced.

12. Continue to backfill and pack with sand inside the 5-inch (127 mm) PVC [5PVC24] and around the outside of the 1-inch (25 mm) sleeve [TSS3] and rod to about 1 inch (25 mm) below the top of the sleeve.

13. Remove all debris and excess dirt to leave area in original condition. Make sure all excess grease is removed and the datum point [SSDP-1] is clean.
[SS-916-04] = Berntsen model number of material specified.
These instructions have been taken from ***GEOMETRIC GEODETIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES (pages 46-48) -- Federal Geodetic Control Committee (Rear Admiral Wesley V. Hull, Chairman) -- Version 5.0: May 11, 1988; Reprinted with corrections: January 5, 2000.***

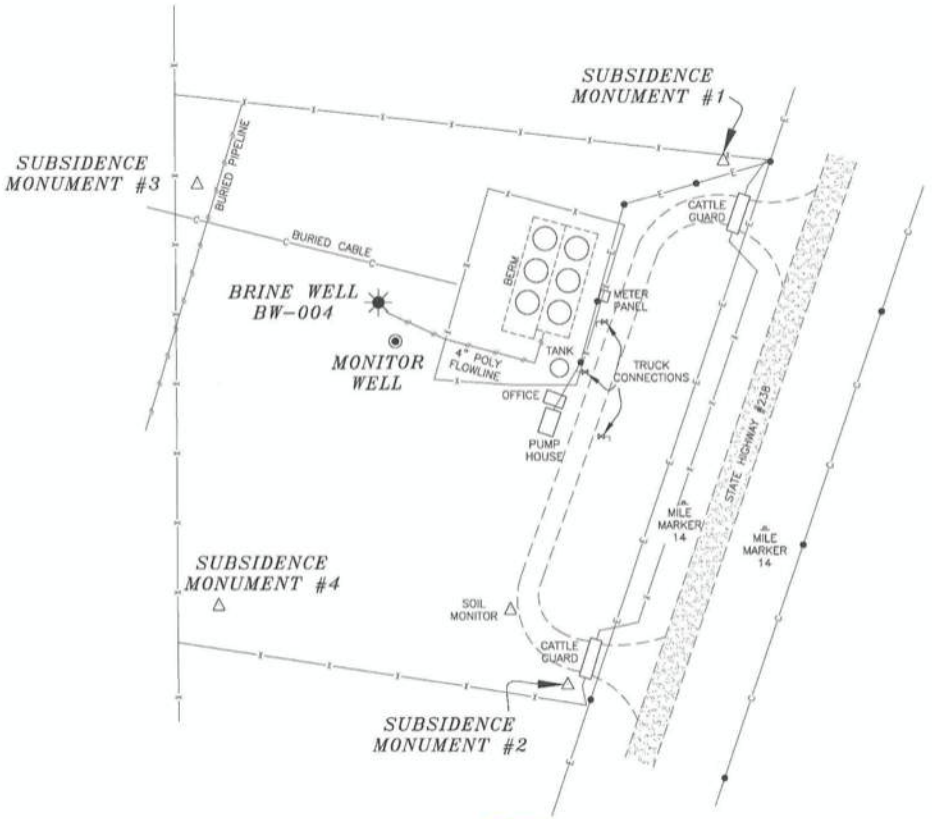
Note: These are to be used only as a guideline for geodetic surveys using GPS relative positioning techniques. **items in italics are added procedures recommended by Berntsen International.*

REMEMBER: "Any Monument Is Only As Stable As Its Backfill".

QUESTIONS? PLEASE CONTACT US FOR ASSISTANCE:
Email: surveymark@berntsen.com
Toll-Free Telephone: 1-800-356-7388 (USA, Canada and Caribbean Islands)
Toll-Free Fax: 1-800-249-9794 (USA, Canada and Caribbean Islands)
Telephone: +1 608.249.8549 (all other countries)
Fax: +1 608.249.9794 (all other countries)

WASSERHUND INC.

SURVEY OF FOUR SUBSIDENCE MONUMENTS AROUND THE WASSERHUND INC. BW-004 BRINE WELL (API#30-025-26883) INSIDE THE EIDSON BRINE STATION LOCATED IN THE SW/4 (UNIT M) OF SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO



NEW MEXICO EAST ZONE – NAD 83

NAME	NORTHING (Y)	EASTING (X)	ELEVATION
BW-004 (SEE NOTE 1)	682359.21	795629.18	4034.33
MONITOR WELL (SEE NOTE 2)	682327.89	795643.10	4033.73
SUBSIDENCE MONUMENT #1	682475.35	795906.68	4030.31'
SUBSIDENCE MONUMENT #2	682052.52	795783.22	4032.22'
SUBSIDENCE MONUMENT #3	682455.79	795483.24	4033.66
SUBSIDENCE MONUMENT #4	682116.77	795501.87	4033.54

Data Aquired from GPS Geodetic Measurements NM East Zone (83) North American Datum of 1983

NOTES:
1) ELEVATION IS ON TOP OF BOTTOM FLANGE OF WELL HEAD.
2) ELEVATION IS ON TOP OF PVC PIPE. NORTH EDGE.
3) HORIZONTAL POSITIONS ARE BASED OFF U.S.C. & G.S. TRIANGULATION STATION "RYCADE" (CV0874). VALUES ARE U.S. SURVEY FEET.
4) ELEVATIONS ARE BASED OFF U.S.C. & G.S. BENCHMARK "K151" (CV0443). VALUES ARE NAVD 88.
5) ALL POINTS WERE OBSERVED USING TOPCON HIPER PLUS GPS SYSTEM UTILIZING REAL TIME KINEMATIC METHODS.

100' 0 100' 200 FEET
SCALE: 1"= 100'

SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

TERRY J ASEL NEW MEXICO 15079 REGISTERED PROFESSIONAL LAND SURVEYOR

Terry J. Asel N.M. R.P.L.S. No. 15079 4/16/2024

Asel Surveying, LLC
P.O. BOX 393 – 310 W. TAYLOR
HOBBS, NEW MEXICO – 575-393-9146

WASSERHUND INC.		
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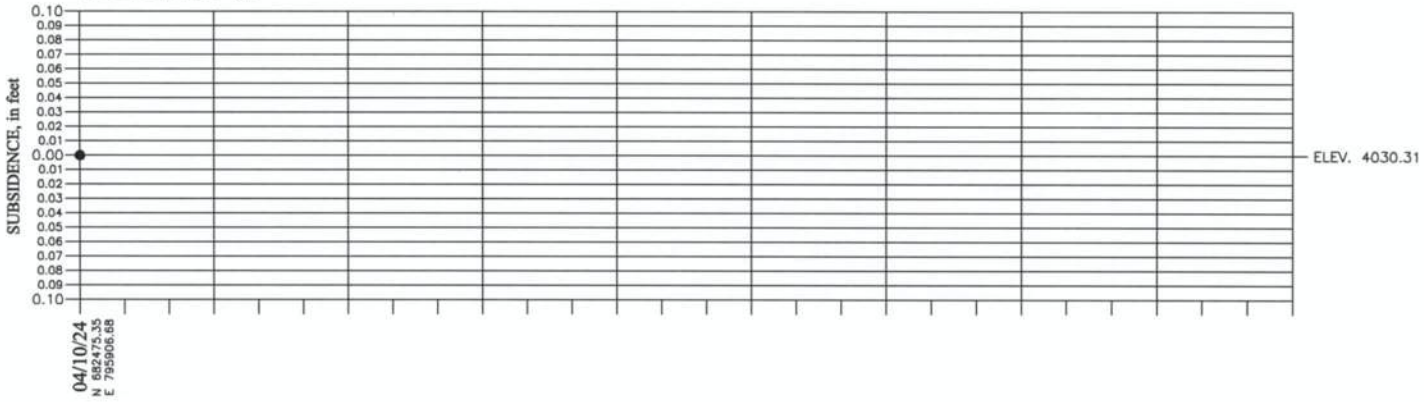
Survey Date: 04/10/24	Sheet 1 of 1 Sheets	
W.O. Number: 240410WL	Drawn By: KA	
Date: 04/11/24	240410WL.DWG	Scale:1"=100'

VERTICAL SUBSIDENCE TABLE
WASSERHUND INC. – BW–004

NEW MEXICO EAST NAD 83

MONUMENT #1



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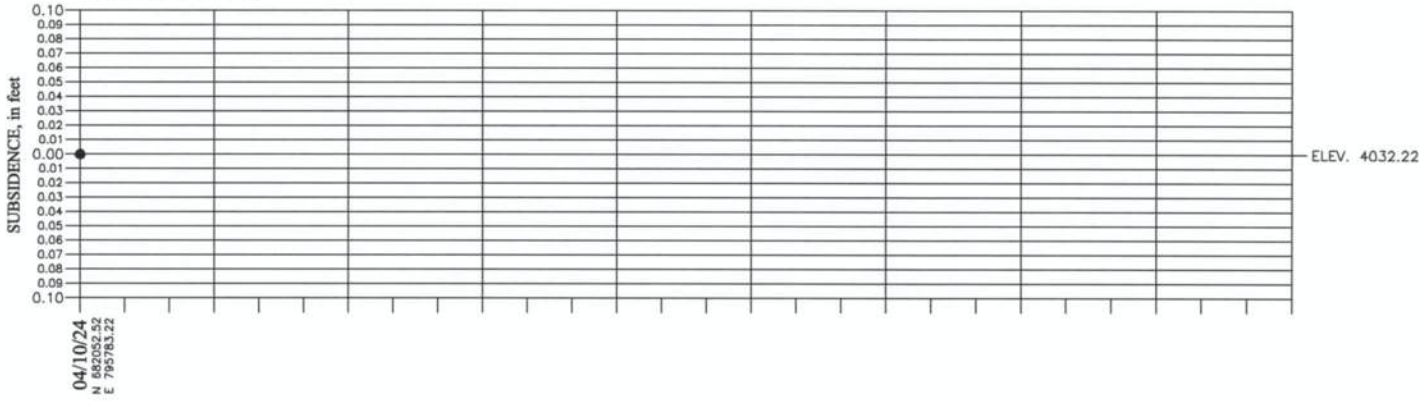

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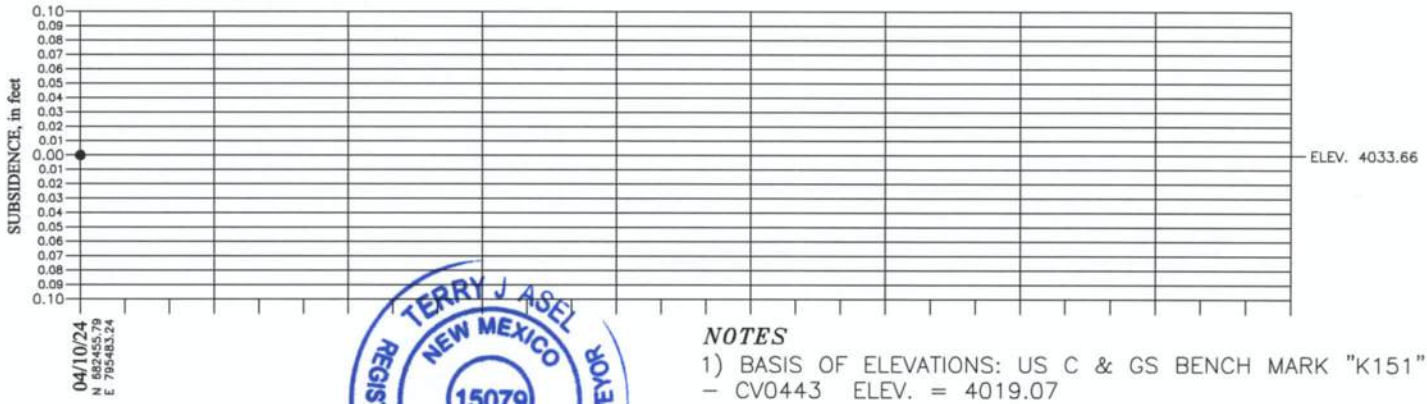

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NOTES

1) BASIS OF ELEVATIONS: US C & GS BENCH MARK "K151" – CV0443 ELEV. = 4019.07

2) OBSERVATIONS WERE MADE USING TOPCON–HIPER PLUS GPS SYSTEM UTILIZING REAL TIME KINEMATIC METHODS FROM A BASE POINT LOCATED AT N–681878.43 E–796655.34 ELEV.=4025.64

WASSERHUND INC.

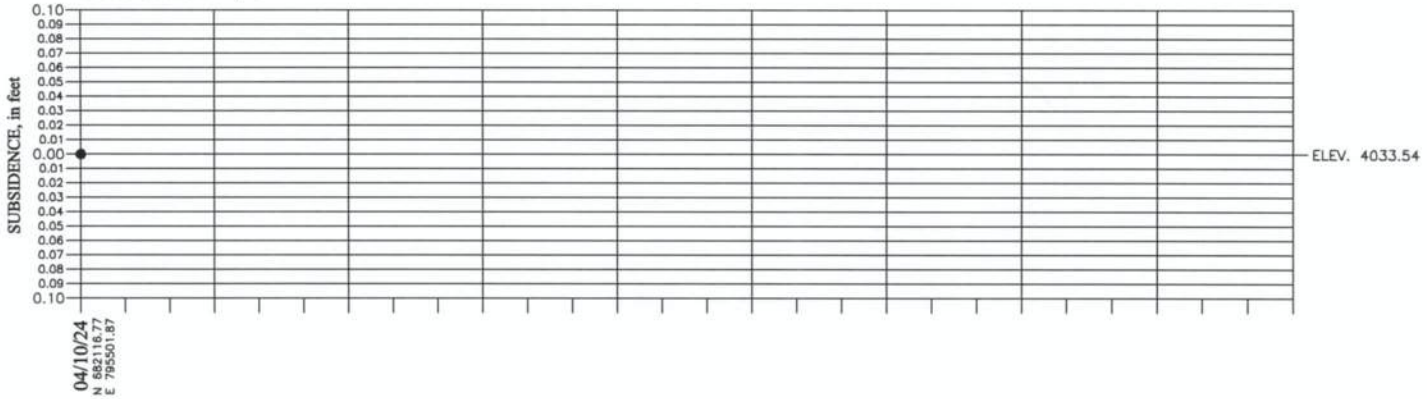
SUBSIDENCE MONITORING FOR THE WASSERHUND INC. – BRINE WELL BW–004 IN SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 04/10/24	Sheet 1 of 2 Sheets	
W.O. Number: 240410MS	Drawn By: KA	Rev:
Date: 04/17/24	240410MS	Scale:1"=1000'

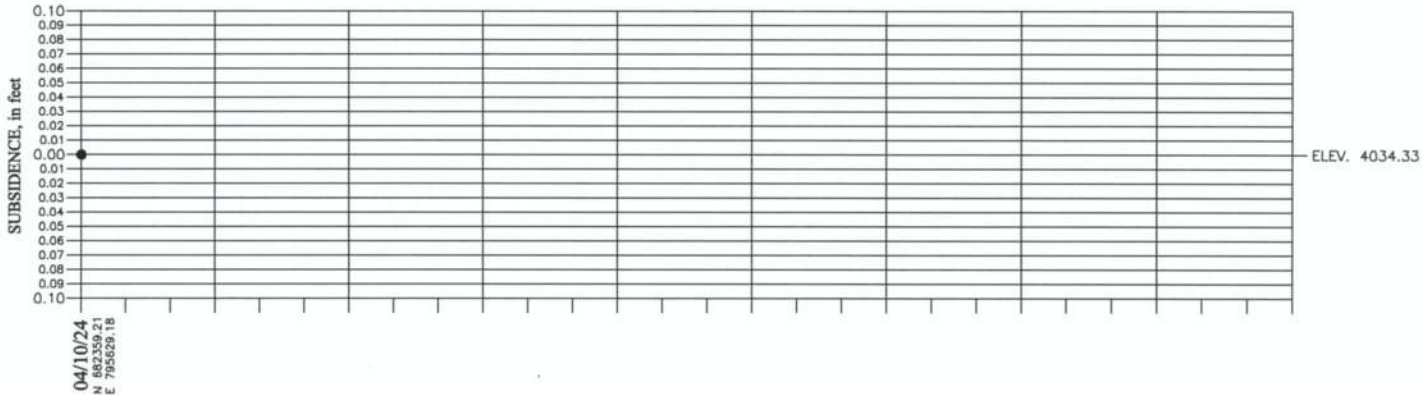
VERTICAL ELEVATION TABLE
WASSERHUND INC. – BW–004

NEW MEXICO EAST NAD 83

MONUMENT #4



BOTTOM FLANGE OF WELLHEAD



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WASSERHUND INC.

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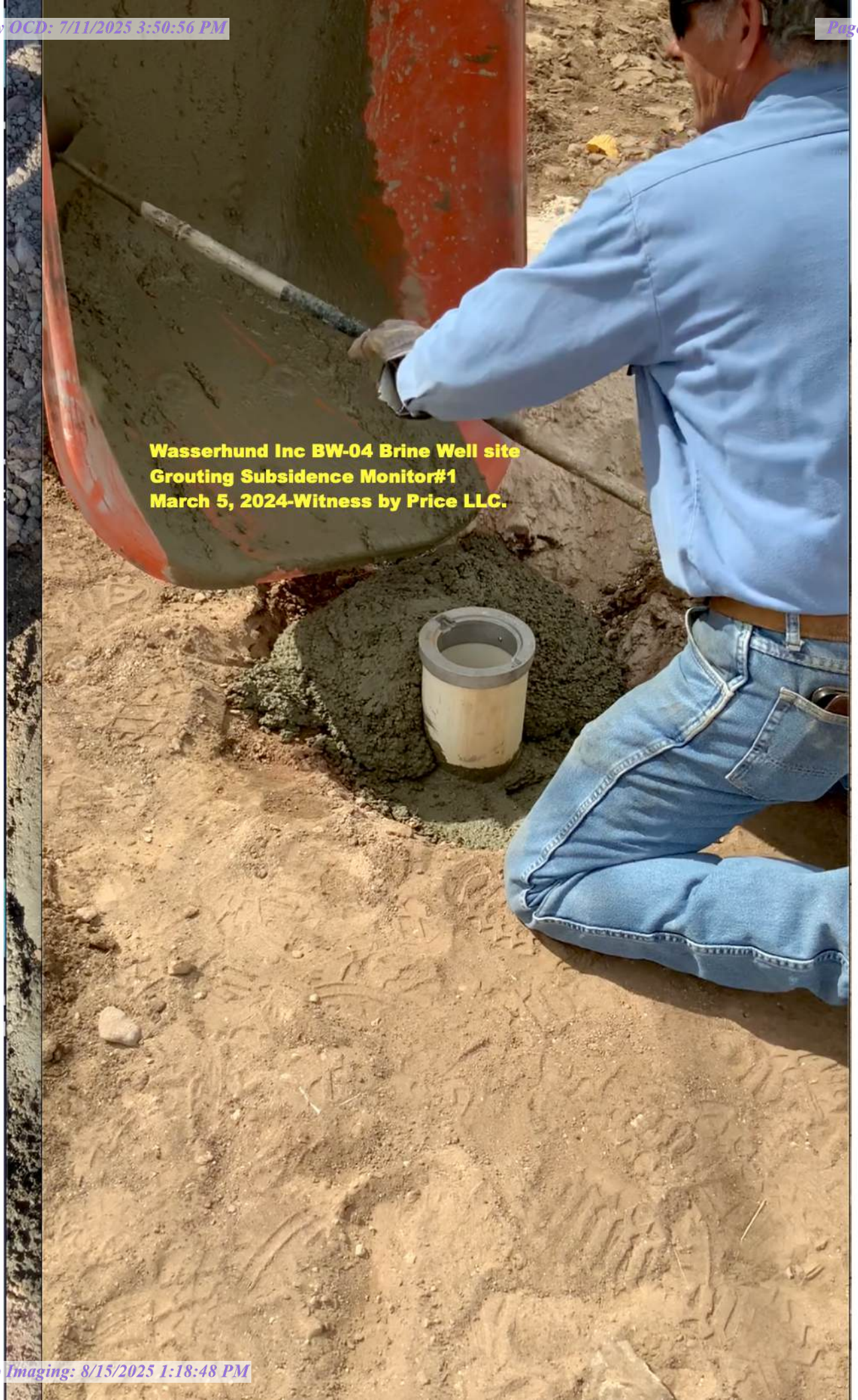
Survey Date: 04/10/24	Sheet 2 of 2 Sheets	
W.O. Number: 240410MS	Drawn By: KA	Rev:
Date: 04/17/24	240410MS	Scale:1"=1000'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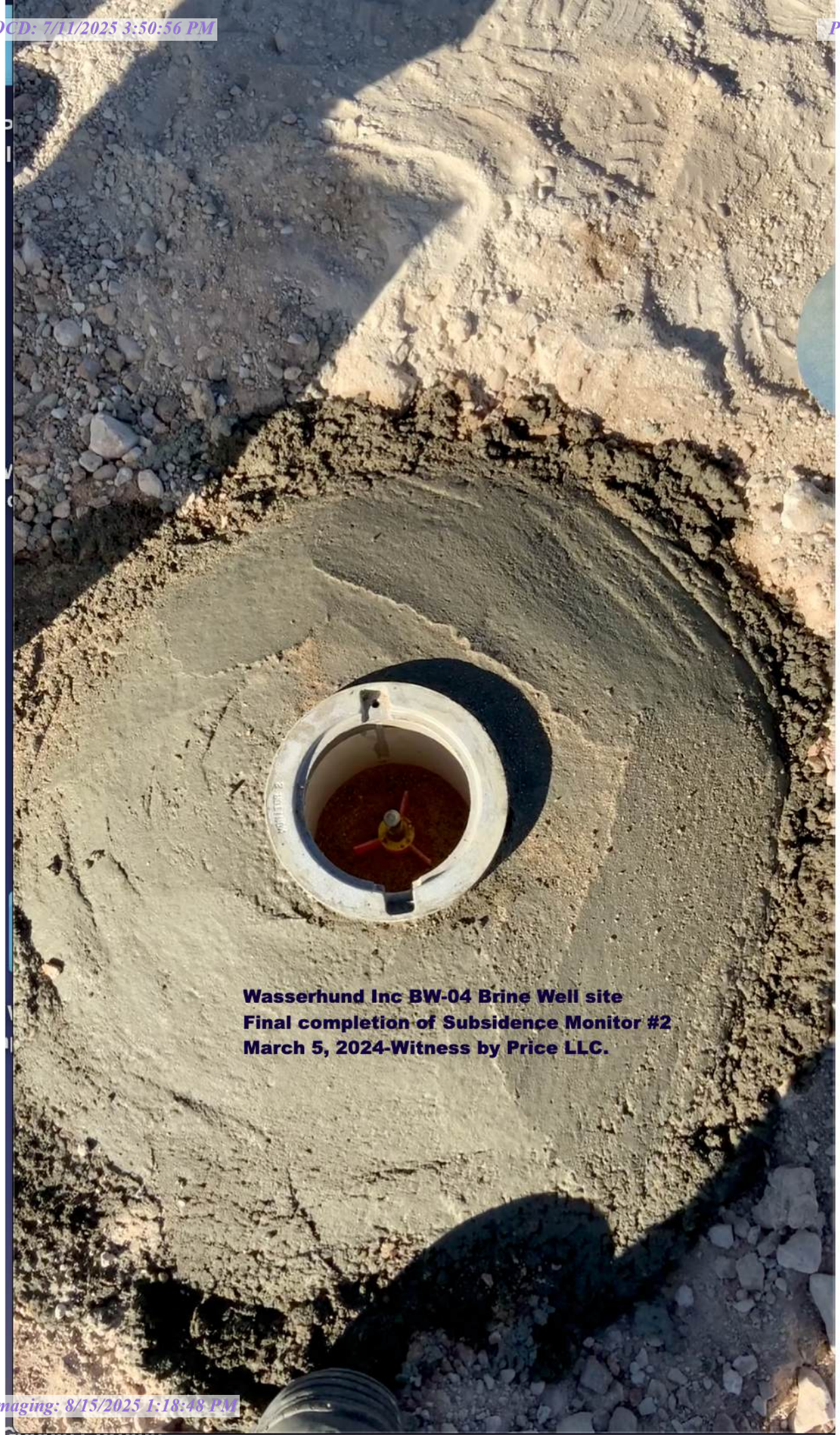
Grouting Subsidence Monitor#1
March 5, 2024-Witness by Price LLC.


Wasserhund Inc BW-04 Brine Well site
Final completion of Subsidence Monitor #2
March 5, 2024-Witness by Price LLC.

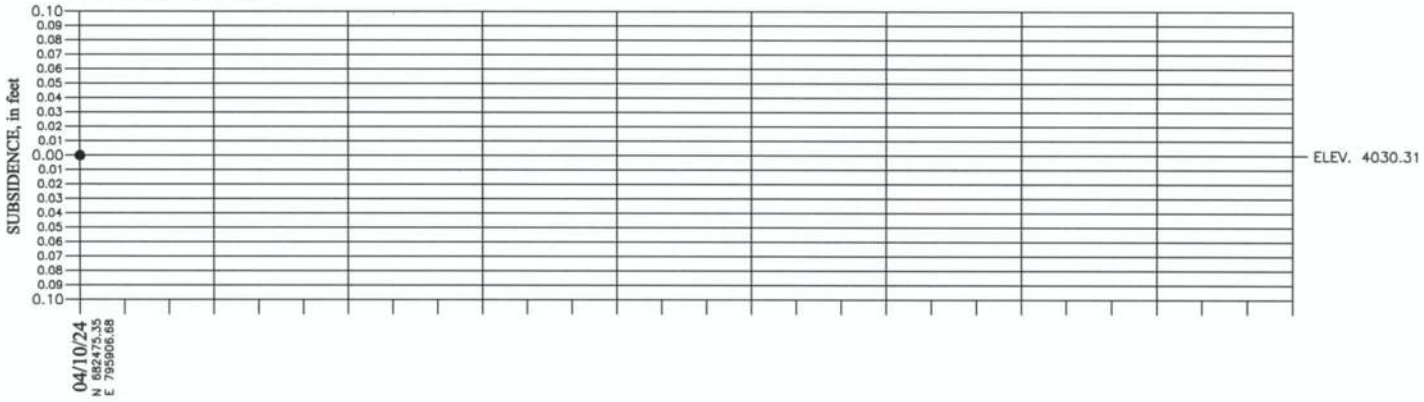

Wasserhund Inc BW-04 Brine Well site
Final completion of Subsidence Monitor #3
March 5, 2024-Witness by Price LLC.


Wasserhund Inc BW-04 Brine Well site
Final completion of Subsidence Monitor #4
March 5, 2024-Witness by Price LLC.

VERTICAL SUBSIDENCE TABLE
WASSERHUND INC. – BW–004

NEW MEXICO EAST NAD 83

MONUMENT #1



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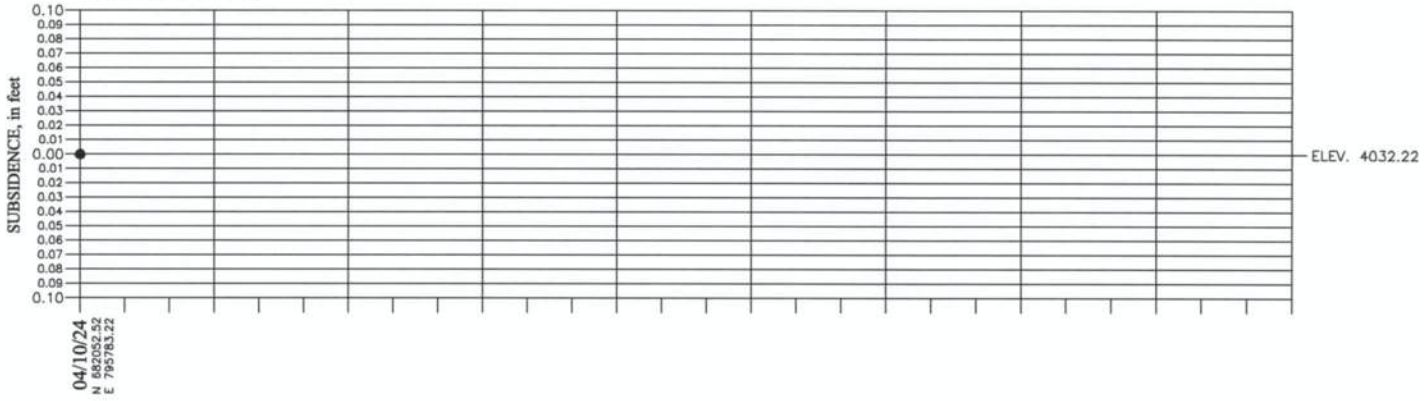

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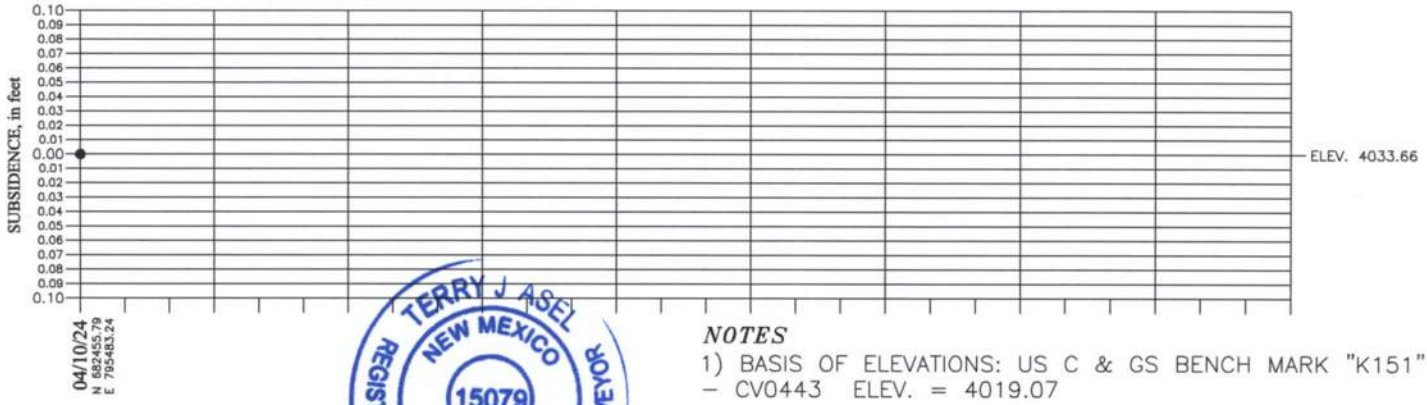

TERRY J ASEL NEW MEXICO 15079 REGISTERED PROFESSIONAL SURVEYOR

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NOTES

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WASSERHUND INC.

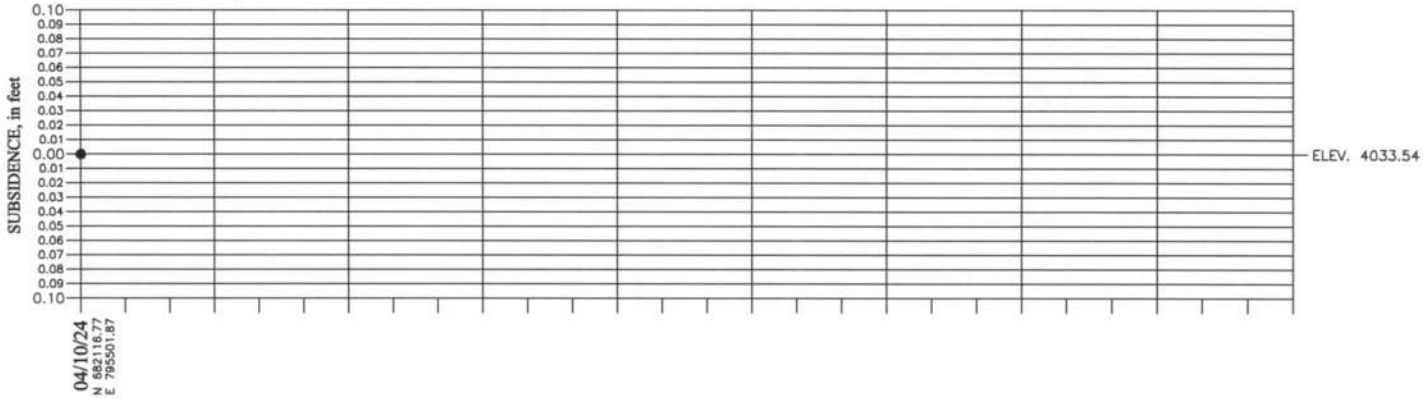
SUBSIDENCE MONITORING FOR THE WASSERHUND INC. – BRINE WELL BW–004 IN SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 04/10/24	Sheet 1 of 2 Sheets	
W.O. Number: 240410MS	Drawn By: KA	Rev:
Date: 04/17/24	240410MS	Scale:1"=1000'

VERTICAL ELEVATION TABLE
WASSERHUND INC. – BW–004

NEW MEXICO EAST NAD 83

MONUMENT #4



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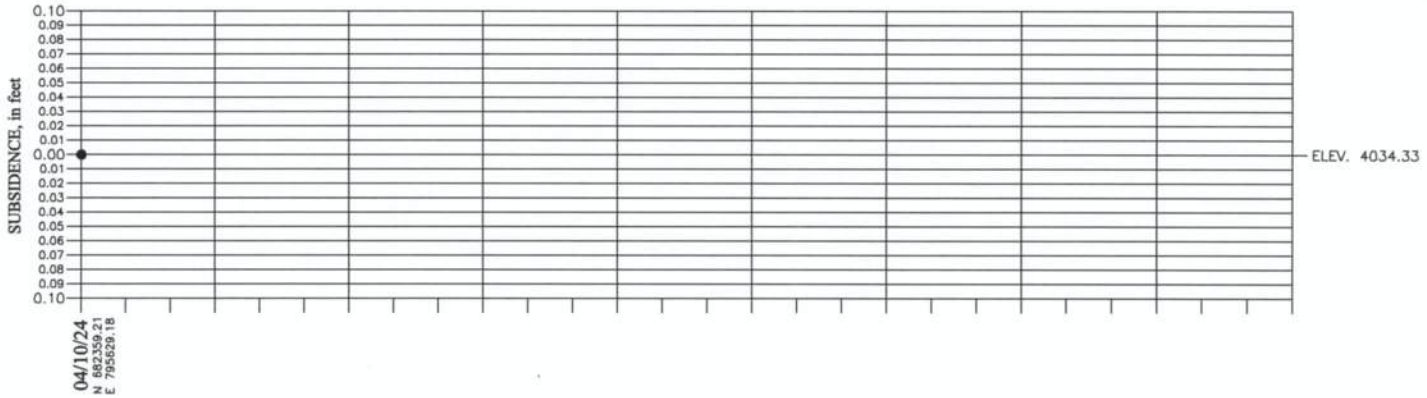

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Survey Date: 04/10/24	Sheet 2 of 2 Sheets	
W.O. Number: 240410MS	Drawn By: KA	Rev:
Date: 04/17/24	240410MS	Scale:1"=1000'

WASSERHUND INC.

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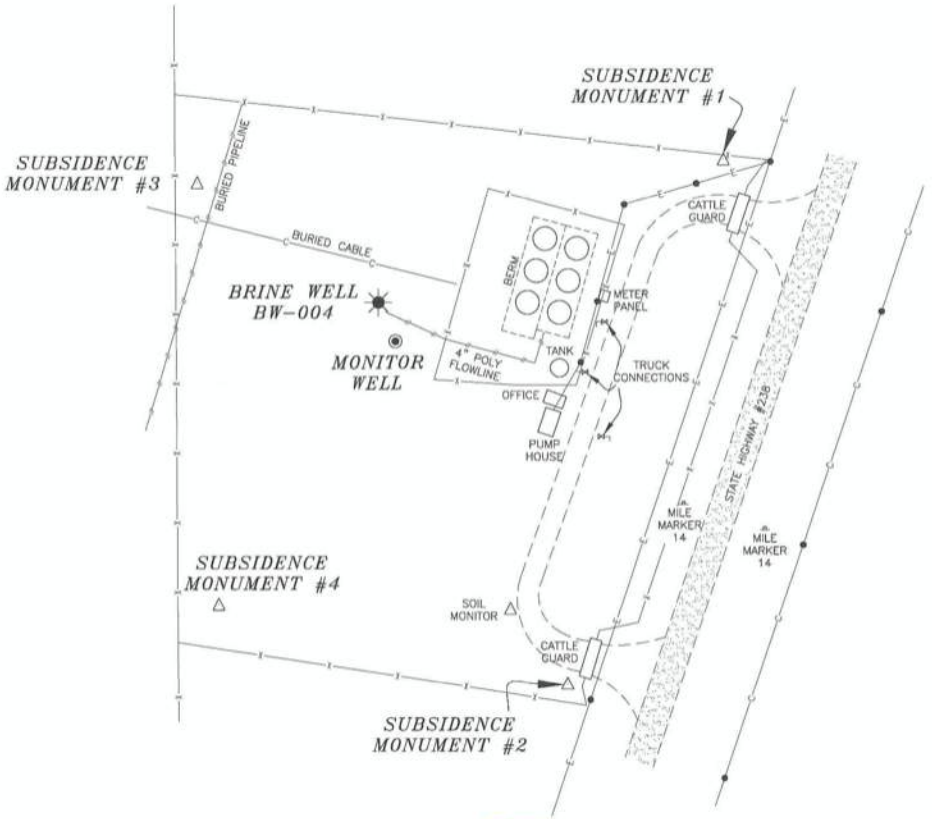

NEW MEXICO EAST ZONE – NAD 83

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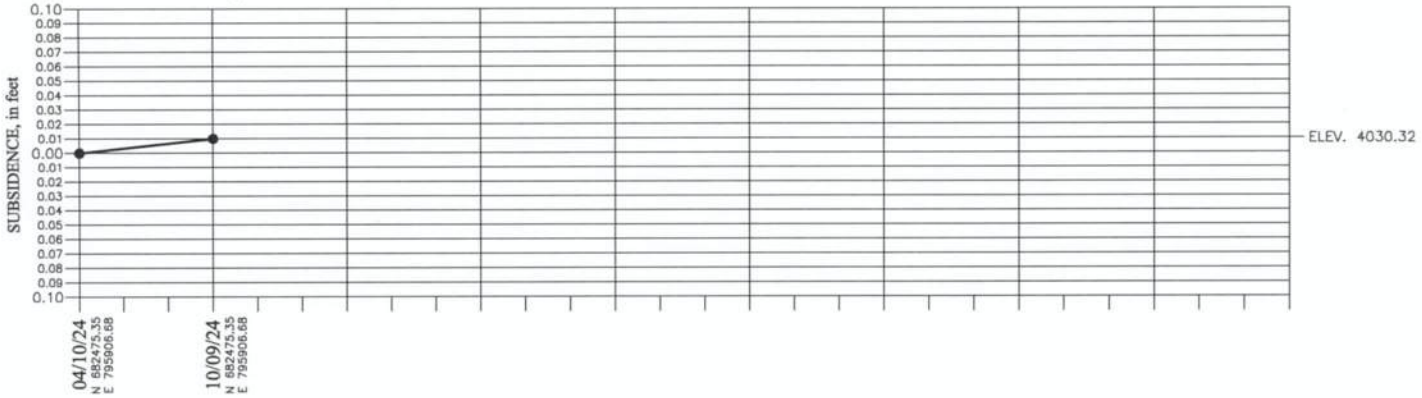
Survey Date: 04/10/24	Sheet 1 of 1 Sheets	
W.O. Number: 240410WL	Drawn By: KA	
Date: 04/11/24	240410WL.DWG	Scale:1"=100'

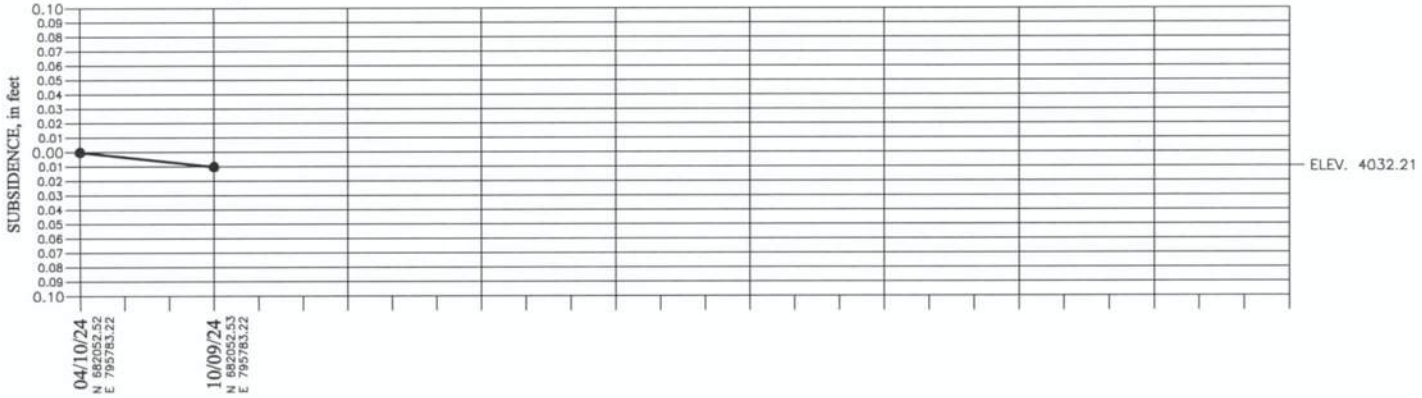
VERTICAL SUBSIDENCE TABLE
WASSERHUND INC. – EIDSON STATE #001 (BW–004)

NEW MEXICO EAST NAD 83

MONUMENT #1



MONUMENT #2



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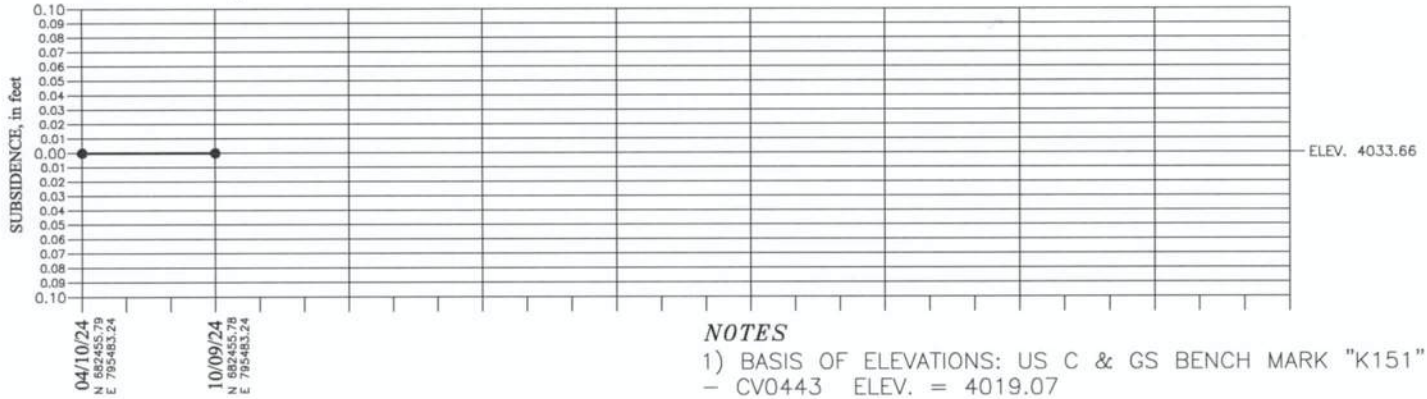

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HOBBS, NEW MEXICO – 575–393–9146

WASSERHUND INC.

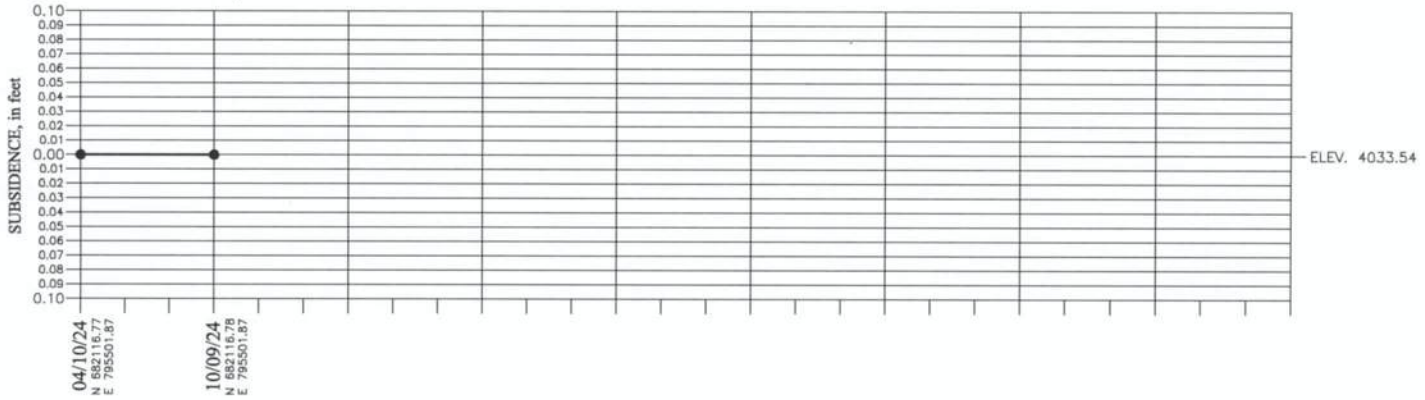
SUBSIDENCE MONITORING FOR THE WASSERHUND INC. – EIDSON STATE #001 (BW–004) IN SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 10/09/24	Sheet 1 of 2 Sheets	
W.O. Number: 241009MS	Drawn By: KA	Rev:
Date: 10/15/24	241009MS	Scale:1"=1000'

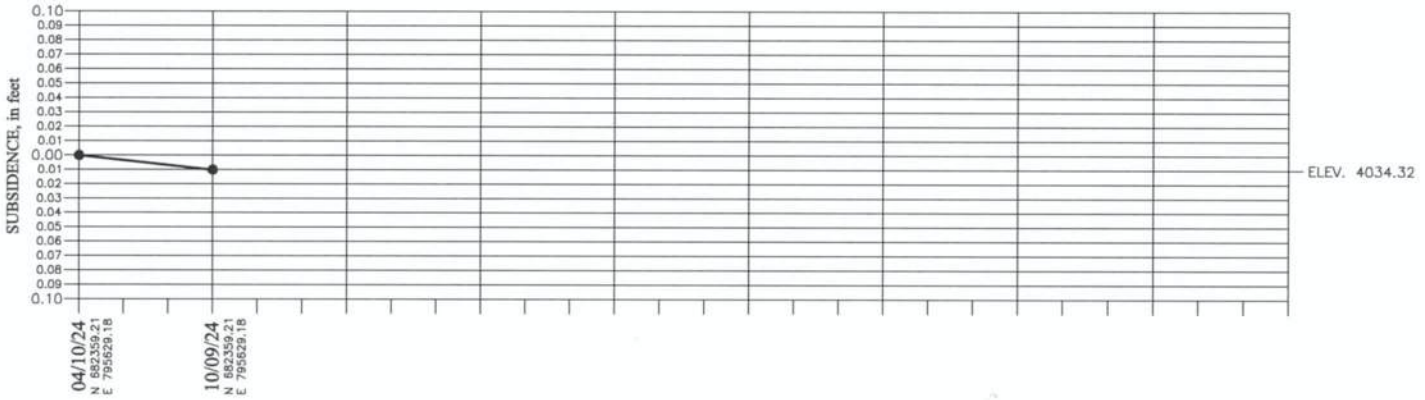
VERTICAL ELEVATION TABLE
WASSERHUND INC. – EIDSON STATE #001 (BW–004)

NEW MEXICO EAST NAD 83

MONUMENT #4



BOTTOM FLANGE OF WELLHEAD



TERRY J ASEL
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 10/16/2024

Terry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying, LLC
P.O. BOX 393 – 310 W. TAYLOR
HOBBS, NEW MEXICO – 575–393–9146

NOTES

1) BASIS OF ELEVATIONS: US C & GS BENCH MARK "K151" – CV0443 ELEV. = 4019.07

2) OBSERVATIONS WERE MADE USING TOPCON–HIPER PLUS GPS SYSTEM UTILIZING REAL TIME KINEMATIC METHODS FROM A BASE POINT LOCATED AT N–681878.43 E–796655.34 ELEV.=4025.64

WASSERHUND INC.

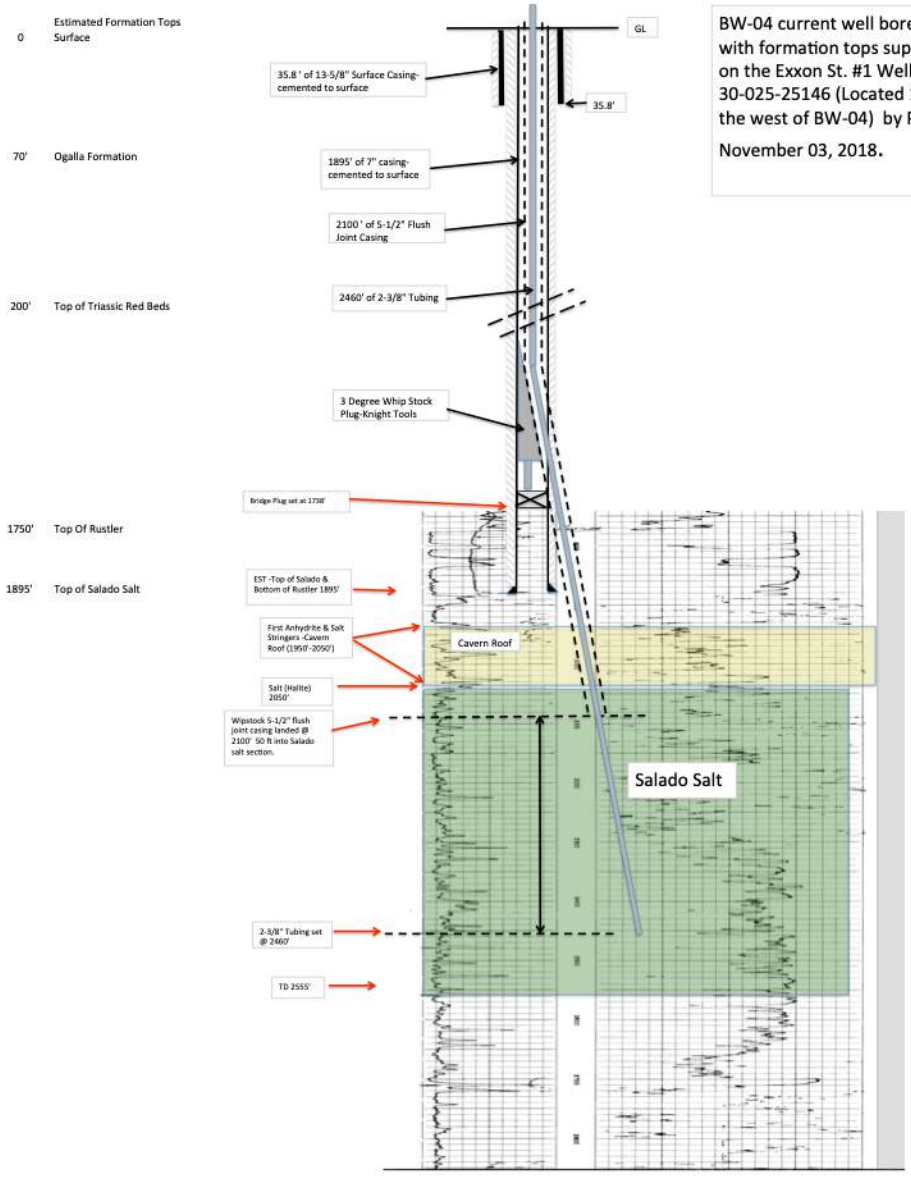
SUBSIDENCE MONITORING FOR THE WASSERHUND INC. – EIDSON STATE #001 (BW–004) IN SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 10/09/24	Sheet 2 of 2 Sheets	
W.O. Number: 241009MS	Drawn By: KA	Rev:
Date: 10/15/24	241009MS	Scale:1"=1000'

Appendix F-Solution Cavern Characterization Plan:

Well Bore

Mass Balance report



BW-04 current well bore diagram with formation tops superimposed on the Exxon St. #1 Well Log API# 30-025-25146 (Located 1/4 mile to the west of BW-04) by Price LLC

November 03, 2018.

2024

BW-04 Mass Balance

Measured Salt Removed vs Calculated Salt Removed

Independent Inputs
Formulas Dependent Variables

Year End Total Production Volume	10,460,933	BBls	Independent variable
Average Density #/gal produced water measured	9.8	lbs/gal	Independent variable — Seven year Average
Average Salt Density-Est	80	lbs/ft3	Independent variable — Used OCD number for salt density
FT3/bbl	7.35	ft3/bbl	Independent variable
LBs of salt per gal	1.466	Lbs/gal	Dependent Variable
LBs of Salt per BBL	80.63	Lbs/bbl	Dependent Variable
Total LBs of Salt Removed	843,465,028	LBS	Dependent Variable
Ft3 of salt removed	10,543,313	Ft3	Estimated Cavern Size calculated from Production Numbers

Geo-Physical Worst Case Cone Calculation
V= ⅓R2h / 3

Radius	166.6	ft	Dependent Variable
Radius Height from Log	360	ft	Independent Variable
Volume of Worst Case Cone	10,458,295	Ft3	Calculated using "Worst Case Cone"

1%	Within 10 % Passes	" Plus % = Means Cone Calulation is less than measured salt removed
		" Neg % = Means Cone Calculaton is more than measured salt remove

Appendix G-Groundwater monitor well

April 21, 2024

Reference: Wasserhund Inc Brine Well BW-04
Ul M-sec 31-Ts 16s-R 35e

Title: Groundwater Monitor Well Install, Sample Event and Lab Analytical Results

This document contains the following elements:

1. Wasserhund Inc -L-15591 MW OSE approv.pdf
2. MW BW-04 install field report and sample.pdf
3. BW-04 MW OSE record.pdf
4. MW#1 Log copy.pdf
5. BW-04 Sub MW Plat copy.pdf
6. Photo MW-1.pdf
7. Lab Analytical Results

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 752237
File Nbr: L 15591

Oct. 19, 2023

WAYNE PRICE-PRICE LLC
WASSERHUND INC
7 SCYAMORE LN
GLENDWOOD, NM 88039

Greetings:

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

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

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

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

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

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

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

Sincerely,

Azucena Ramirez
(575)622-6521

Enclosure

explore

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

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

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

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

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

☒ Temporary Request - Requested Start Date: Oct 15, 2023 Requested End Date: Nov 15, 2023

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: Wasserhund Inc	Name:
Contact or Agent: check here if Agent ☒ Wayne Price-Price LLC	Contact or Agent: check here if Agent ☐
Mailing Address: 7 scyamore Ln	Mailing Address:
City: Glenwood NM	City:
State: NM Zip Code: 88039	State: Zip Code:
Phone: 505-715-2809 ☐ Home ☒ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): waynepriceq.com@Gmail.com	E-mail (optional):

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

File No.: L-15591	Trn. No.: 752237	Receipt No.: 2-46282
Trans Description (optional): MON		
Sub Basin: L	PCW/LOG Due Date: 10/18/24	

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

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

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

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

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
L-15591 POD1 MW#1	N 32-52'-23.16"	W -103-30'-18.34"	UL M-Sec 31-Ts16S-R35E
			OSE DIT OCT 13 2023 PM 1:20

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

Other description relating well to common landmarks, streets, or other:

Proposed 4" Monitor Well located at the Wasserhund Inc OCD permit BW-04 Brine Well; 5 miles north of Buckeye NM ST HWY 238.

Well is on land owned by: **NM State Land**

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

Approximate depth of well (feet): 90 feet	Outside diameter of well casing (inches): 4" Sch 40 threaded PVC
Driller Name:Coffey Drilling Hobbs NM	Driller License Number: 1839

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The NMOCD is requiring Wasserhund inc install a 4" groundwater monitor well (MW) to be located 30 ft SE of the BW-04 brine well near Buckeye NM. Water foramtion is the Ogallala formation with top of water approximately 70 ft BGS. The agency is requiring 15 ft of .20" slotted sreen with 10 feet to be in water and 5 feet above water level. Well will be constructed, installed and developed pursuant to the NMOSE requirments conditions. This MW will be used to detect non-organic constitieunts, primarily Sodium Chloride (I.e salt water brine) if a realese occurs from the brine well casing.

If contamination occurs, Wasserhund may request a consumptive usage for groundwater clean-up.

Attached is a well bore diagram for reference.

This MW will be used until the brine well site is closed, estimated to be approximately 20 years more or less. P&A at that time will be pursuant to NMOSE requirement at the time of closure.

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

File No: L-15591 Trn No: 752237

boxes, to indicate the information has been included and/or attached to this application:

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

ACKNOWLEDGEMENT

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I, We (name of applicant(s)), Wasserhund Inc. Jon Gandy-President
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☑ approved ☐ partially approved ☐ denied

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

Witness my hand and seal this 19th day of October 20 23, for the State Engineer,

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

By: K.Parekh
Signature

Kashyap Parekh
Print

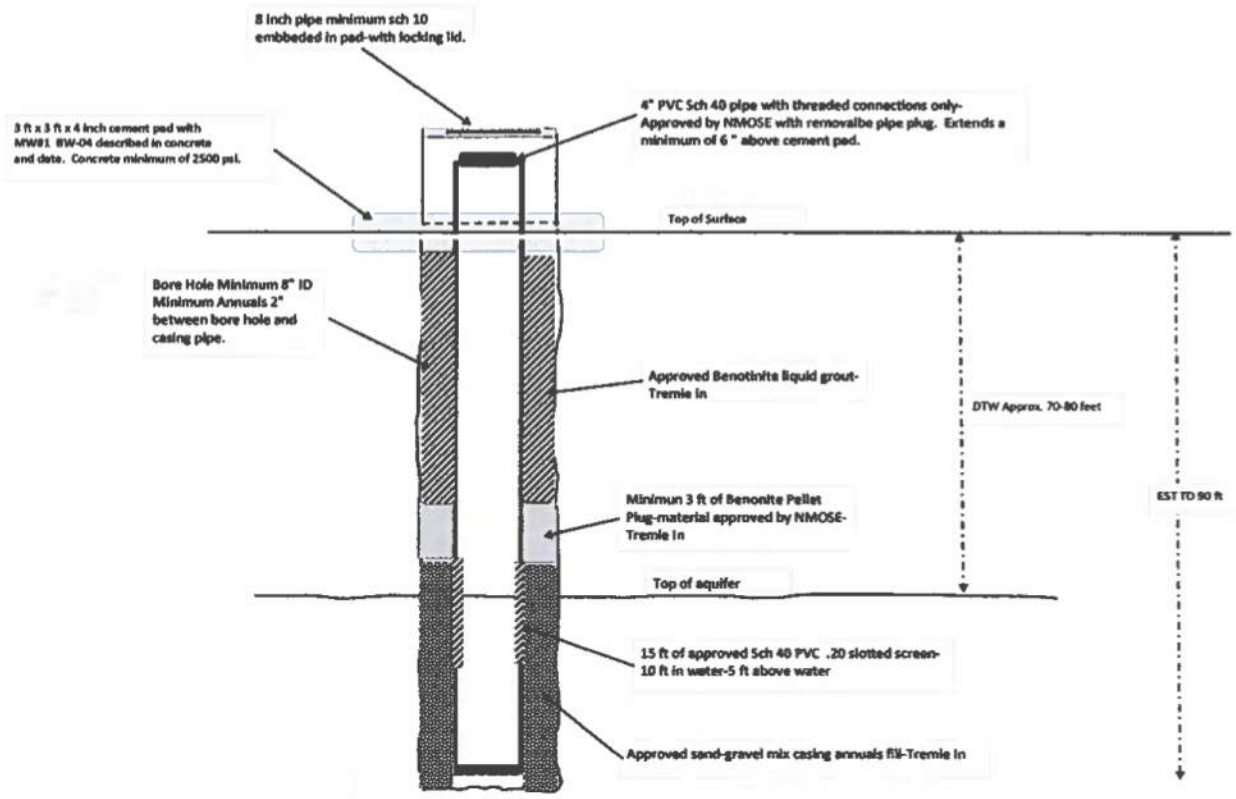
Title: Water Resources Manager I
Print

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

File No.: L-15591 Trn No.: 752237

Wasserhund Inc Brine Well Proposed 4" Monitor Well
located in UL M-Sec 32-TS16s-R35E
30 ft SE of Existing Brine Well. By Price LLC Oct 1, 2023.
Well shall be pursuant to NMOSE requirements.

Correction: Sec 31 not 32



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NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

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

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

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

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

Trn Desc: L 15591 POD1

File Number: L 15591
Trn Number: 752237

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

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

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

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

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

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

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

Trn Desc: L 15591 POD1 File Number: L 15591
Trn Number: 752237

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion L 15591 POD1 must be completed and the Well Log filed on or before 10/18/2024.

ALL WELLS SHALL BE CONSTRUCTED TO PRECENT CONTAMINANTS FROM ENTERING THE HOLE FROM LAND SURFACE BE SEALING THE ANNULAR SPACE AROUND THE OUTERMOST CASING.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 10/13/2023 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

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

Witness my hand and seal this 19 day of Oct A.D., 2023

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

By: K. Parekh
KASHYAP PAREKH

Trn Desc: L 15591 POD1 File Number: L 15591
Trn Number: 752237

GLENN'S WATER WELL SERVICE, INC.

8 South NM 206
PO Box 692
Tatum, NM 88267

Phone: 575-398-2424
Cell: 575-369-5145
Email: travis.glenn@outlook.com

12/18/23

Wayne,

I have outlined the process we used to drill the monitor well at the Wasserhund station.

12-6-23

Arrived at site, checked for hazards, rigged up and started drilling with a 9 7/8" roller cone bit using air to clean out hole. Drilled down to 70' without issue, then lost circulation in loose sand. We had to work bit up and down to keep cuttings blowing out of hole but couldn't clean out bore hole very well. Drilled down to 100' and pulled out of hole. Ran depth indicator in well and had fill at 70'. We ran the bit back in and cleaned well out, using air, back to 100'. Pulled out and ran the casing in the hole and was able to get 80' in hole before we hit fill again. The decision was made to use water and foam to better clean out the cuttings. We installed a conductor pipe with diverter and packing to seal between drill pipe and bore hole and cleaned well out to 100' again. Then we ran the casing back in well, finding fill at 95'. The 4.5" OD PVC casing had 30' of .020" slotted perforations on bottom. The top 65' was non-slotted. The entire string was flush threaded with a point on the bottom. Then we ran 90' of 2" steel tremie pipe in annulus and poured 48 bags of 10-20 Silica Sand gravel pack in well. It should have taken 26 bags to fill 30' of annulus, but the bore hole was enlarged from the loose sand encountered. The gravel filled up to 72' and then we poured 16 bags of 3/8" Baroid Hole Plug through the tremie, hydrating each bag with 3 gallons of water. We pulled the tremie pipe out of the annulus and covered the well to prevent contamination and left overnight.

12/7/23

Arrived at site and ran 2.5" bailer in well, fill was at 94' and water level approximately 85'. We pulled 5 loads of water out of well, but valve on bailer wouldn't seal well after 2 loads so we didn't get more than 5 gallons out of well. We then ran the 2" tremie in annulus and found the Hole Plug at 64'. We mixed and pumped 9 bags of Baroid Quik-Grout down tremie to fill backside to surface and pulled tremie out. We then bailed 5 more loads out of well and rigged down. We moved the rig to Tatum and came back in 4 hours and found the grout had settled down about 20'. We mixed and pumped 2 more bags filling backside completely.

12/9/23

Arrived at site with small service rig and ran bailer in well. Pulled 5 loads out of well, with fill at 94' and water level at 86.2'. Grout was 7' down from top, mixed and filled annulus with another bag. Cleaned up around borehole removed all trash.

This week, we will cement the top pad and add the steel conductor pipe with the locking lid. The PVC casing has a top plug in it now to prevent vandalism. We also will install the subsidence monitors when we get them. Please let me know if you have any questions.

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L 15591 POD1	3	3	3	31	16S	35E	639854	3638209

Driller License: 1719 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: TRAVIS GLENN

Drill Start Date: 12/06/2023 **Drill Finish Date:** 12/07/2023 **Plug Date:**

Log File Date: 01/18/2024 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 4.00 **Depth Well:** 100 feet **Depth Water:** 86 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	100	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	65	95

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
L-15591		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Wasserhund Inc.	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	52	23.16	N
	LONGITUDE	-103	30	18.34	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1719	Travis Glenn	Glenn's Water Well Service, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/6/2023	12/7/2023	86'	100'	86'

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 86.2'

DRILLING FLUID: ☑ AIR ☐ MUD ✔ ADDITIVES – SPECIFY: Drilling Foam

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	65	9.875"	4.5" OD PVC Sch 40	Flush Thread	4.0"	.25"	Blank
65	95	9.875"	4.5" OD PVC Sch 40	Flush Thread	4.0"	.25"	.020"

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	64	9.875"	Baroid Quik-Grout	12 bags-8.4 cu/ft	2" tremie pipe
64	72	9.875"	Baroid Holeplug 3/8"	16 bags-11.2 cu/ft	2" tremie pipe
72	95	9.875"	10-20 Silica Sand gravel pack	48 bags	2" tremie pipe

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Soil	Y ✔ N	
2	23	21	Caliche	Y ✔ N	
23	28	5	Sandrock (hard)	Y ✔ N	
28	50	22	Sandrock (soft)	Y ✔ N	
50	100	50	Water sand	✔ Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY: Not determined

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Drilled bore hole to 70' with air, lost circulation intermittedly and continued to 100'. Was unable maintain open hole beyond 70', injected water and foam to clean out sand from bore hole. Ran casing to 95' with a point on bottom and 4 SS centralizers, fill at 95'. Poured 48 bags of gravel through 2" tremie pipe, then 16 bags of hole plug with water hydration followed by 12 bags of grout. PVC casing cutoff 1' above ground level and 8 5/8" steel conductor pipe cemented 18" above ground level

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Signed Original sent to NMOSE

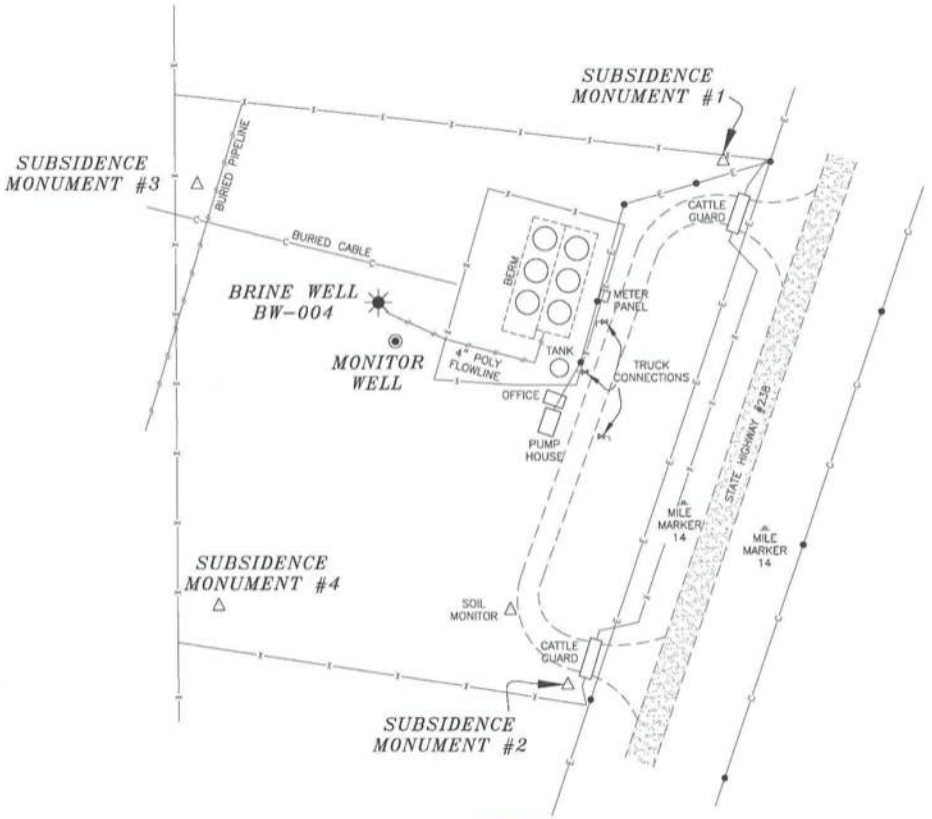
SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WASSERHUND INC.

SURVEY OF FOUR SUBSIDENCE MONUMENTS AROUND THE WASSERHUND INC. BW-004 BRINE WELL (API#30-025-26883) INSIDE THE EIDSON BRINE STATION LOCATED IN THE SW/4 (UNIT M) OF SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO



NEW MEXICO EAST ZONE – NAD 83

NAME	NORTHING (Y)	EASTING (X)	ELEVATION
BW-004 (SEE NOTE 1)	682359.21	795629.18	4034.33
MONITOR WELL (SEE NOTE 2)	682327.89	795643.10	4033.73
SUBSIDENCE MONUMENT #1	682475.35	795906.68	4030.31'
SUBSIDENCE MONUMENT #2	682052.52	795783.22	4032.22'
SUBSIDENCE MONUMENT #3	682455.79	795483.24	4033.66
SUBSIDENCE MONUMENT #4	682116.77	795501.87	4033.54

Data Aquired from GPS Geodetic Measurements NM East Zone (83) North American Datum of 1983

NOTES:
1) ELEVATION IS ON TOP OF BOTTOM FLANGE OF WELL HEAD.
2) ELEVATION IS ON TOP OF PVC PIPE. NORTH EDGE.
3) HORIZONTAL POSITIONS ARE BASED OFF U.S.C. & G.S. TRIANGULATION STATION "RYCADE" (CV0874). VALUES ARE U.S. SURVEY FEET.
4) ELEVATIONS ARE BASED OFF U.S.C. & G.S. BENCHMARK "K151" (CV0443). VALUES ARE NAVD 88.
5) ALL POINTS WERE OBSERVED USING TOPCON HIPER PLUS GPS SYSTEM UTILIZING REAL TIME KINEMATIC METHODS.

100' 0 100' 200 FEET
SCALE: 1"= 100'

SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

TERRY J ASEL NEW MEXICO 15079 REGISTERED PROFESSIONAL LAND SURVEYOR

Terry J. Asel N.M.P.P.L.S. No. 15079 4/16/2024

Asel Surveying, LLC
P.O. BOX 393 – 310 W. TAYLOR
HOBBS, NEW MEXICO – 575-393-9146

WASSERHUND INC.		
SURVEY OF FOUR SUBSIDENCE MONUMENTS AROUND THE WASSERHUND INC. BW-004 BRINE WELL (API#30-025-26883) INSIDE THE EIDSON BRINE STATION LOCATED IN THE SW/4 (UNIT M) OF SECTION 31, TOWNSHIP 16 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO		
Survey Date: 04/10/24	Sheet 1 of 1 Sheets	
W.O. Number: 240410WL	Drawn By: KA	
Date: 04/11/24	240410WL.DWG	Scale:1"=100'

Appendix H-2019 Current Permit

State of New Mexico
Energy, Minerals and Natural Resources Department

December 26, 2019

Mr. Larry Gandy
Wasserhund Inc.
P.O. Box 2140
Lovington, New Mexico 88260

Re: Renewal of Discharge Permit BW-4, Wasserhund Inc. UIC Class III Brine Well, Eidson State No. 1 (API# 30-025-26883) Located in Unit Letter M in Section 31 of Township 16 South, Range 35 East NMPM, Lea County, New Mexico

Mr. Gandy,

The renewal of discharge permit BW-4 for the Eidson State No. 1 brine well is hereby approved under the terms and conditions specified herein. Be advised that approval of this permit does not relieve Wasserhund, Inc. (Wasserhund) of liability if operations result in pollution of surface water, groundwater, or the environment. This permit will expire on **December 26, 2024** and Wasserhund should submit a discharge permit renewal application in ample time before this date. Under 20.6.2.3106F NMAC, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved discharge permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

Every facility submitting a discharge permit application is assessed a non-refundable filing fee of $100.00 as well as a permit fee. The Oil Conservation Division (OCD) has already received the filing fee, but the $1,700.00 permit fee for a Class III injection well is now required by check made payable to the "Water Quality Management Fund."

If you have any questions, please contact Carl Chavez of my staff at 505-476-3490 or by email at *CarlJ.Chavez@state.nm.us*. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this permit renewal review.

Respectfully,

Adrienne Sandoval
OCD Director

Enclosure: BW-4 Permit Conditions

cc: Hobbs District Office

DISCHARGE PERMIT APPROVAL CONDITIONS

1. GENERAL PROVISIONS:

1.A. PERMITTEE AND PERMITTED FACILITY : The Director of the Oil Conservation Division (OCD) of the Energy, Minerals and Natural Resources Department renews Discharge Permit BW-4 to Wasserhund, Inc. (Permittee) to operate a Underground Injection Control (UIC) Class III Well for the solution mining of salt (Eidson State Well No. 1 API # 30-025-26883) located 567 FSL, and 162 FWL, Unit Letter M (SW/4 of SW/4) of Section 31, Township 16 South, Range 35 East, Lat. N 32.87313°, Long. W -103.50503°, NMPM, Lea County, New Mexico. This brine well is located approximately 7 miles west and 5 miles south of City of Lovington on State Road 238. The brine station or sales terminal is located approximately 100 ft. east of BW-4. A fresh water supply is located approximately 250 ft. west of BW-4. Produced brine is metered at surface and transported via a surface 3-inch polyethylene pipeline to the brine station for sale.

The Permittee is permitted to inject water into the subsurface salt layers and produce brine for use in the oil and gas industry. Groundwater that may be affected by a spill, leak, or accidental discharge of brine occurs at a depth of approximately 85 feet below ground surface and has a total dissolved solids (TDS) concentration of approximately 450 mg/L.

1.B. SCOPE OF PERMIT: OCD has been granted the authority by statute and by delegation from the Water Quality Control Commission (WQCC) to administer the Water Quality Act (Chapter 74, Article 6 NMSA 1978) as it applies to Class III wells associated with the oil and gas industry (See Section 74-6-4, 74-6-5 NMSA 1978).

The Water Quality Act and the rules promulgated pursuant to the Act protect groundwater and surface water of the State of New Mexico by providing that, unless otherwise allowed by 20.6.2 NMAC, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into groundwater unless such discharge is pursuant to an approved discharge plan (See 20.6.2.3104 NMAC, 20.6.2.3106 NMAC, and 20.6.2.5000 through 20.6.2.5399 NMAC).

This Discharge Permit for a Class III Brine Well is issued pursuant to the Water Quality Act and WQCC rules, 20.6.2 NMAC. This Discharge Permit does not authorize any treatment of, or on-site disposal of, any materials, product, by-product, or oil field waste.

Pursuant to 20.6.2.5004A NMAC, the following underground injection activities are prohibited:

1. The injection of fluids into a motor vehicle waste disposal well is prohibited.
2. The injection of fluids into a large capacity cesspool is prohibited.
3. The injection of any hazardous or radioactive waste into a well is prohibited except as provided by 20.6.2.5004A(3) NMAC.
4. Class IV wells are prohibited, except for wells re-injecting treated groundwater into the same formation from which it was drawn as part of a removal or remedial action.
5. Barrier wells, drainage wells, recharge wells, return flow wells, and motor vehicle waste disposal wells are prohibited.

This Discharge Permit does not convey any property rights of any sort nor any exclusive privilege, and does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state, federal, or local laws, rules or regulations.

The Permittee shall operate in accordance with the terms and permit conditions specified in this Discharge Permit to comply with the Water Quality Act and the rules issued pursuant to that Act, so that neither a hazard to public health nor undue risk to property will result (see 20.6.2.3109C NMAC); so that no discharge will cause or may cause any stream standard to be violated (see 20.6.2.3109H(2) NMAC); so that no discharge of any water contaminant will result in a hazard to public health, (see 20.6.2.3109H(3) NMAC); so that the numerical standards specified in 20.6.2.3103 NMAC are not exceeded; and, so that the technical criteria and performance standards (see 20.6.2.5000 through 20.6.2.5399 NMAC) for Class III wells are met. Pursuant to 20.6.2.5003B NMAC, the Permittee shall comply with 20.6.2.1 through 20.6.2.5399 NMAC.

The Permittee shall not allow or cause water pollution, discharge, or release of any water contaminant that exceeds the Water Quality Control Commission (WQCC) standards specified at 20.6.2.3101 NMAC and 20.6.2.3103 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams). Pursuant to 20.6.2.5101A NMAC, the Permittee shall not inject non-hazardous fluids into groundwater having 10,000 mg/l or less total dissolved solids (TDS).

The issuance of this permit does not relieve the Permittee from the responsibility of complying with the provisions of the Water Quality Act, any applicable regulations or water quality standards of the WQCC, or any applicable federal laws, regulations or standards (See Section 74-6-5 NMSA 1978).

1.C. DISCHARGE PERMIT: This Discharge Permit is a permit renewal that replaces the permit being renewed. Replacement of a prior permit does not relieve the Permittee of its responsibility to comply with the terms of that prior permit while that permit was in effect.

1.D. DEFINITIONS: Terms not specifically defined in this Discharge Permit shall have the same meanings as those in the Water Quality Act or the rules adopted pursuant to the Act, as the context requires.

1.E. FILING FEES AND PERMIT FEES: Pursuant to 20.6.2.3114 NMAC, every facility that submits a Discharge Permit application for initial approval or renewal shall pay the permit fees specified in Table 1 and the filing fee specified in Table 2 of 20.6.2.3114 NMAC. OCD has already received the required $100.00 filing fee. The Permittee is now required to submit the $1,700.00 permit fee for a Class III well. Please remit payment made payable to the "Water Quality Management Fund" in care of OCD at 1220 South St. Francis Drive in Santa Fe, New Mexico 87505.

1.F. EFFECTIVE DATE, EXPIRATION, RENEWAL CONDITIONS, AND PENALTIES FOR OPERATING WITHOUT A DISCHARGE PERMIT: This Discharge Permit becomes effective immediately from the date that the Permittee receives this discharge permit or until the permit is terminated or expires. This Discharge Permit will expire on **December 26, 2024**. The Permittee shall submit an application for renewal no later than 120 days before that expiration date, pursuant to 20.6.2.5101F NMAC. If a Permittee submits a renewal application at least 120 days before the Discharge Permit expires and is in compliance with the approved Discharge Permit, then the existing Discharge Permit will not expire until OCD has approved or disapproved the renewal application. A discharge permit continued under this provision remains fully effective and enforceable. Operating with an expired Discharge Permit may subject the Permittee to civil and/or criminal penalties (See Section 74-6-10.1 NMSA 1978 and Section 74-6-10.2 NMSA 1978).

1.G. MODIFICATIONS AND TERMINATIONS: The Permittee shall notify the OCD Director and OCD's Environmental Bureau of any Facility expansion or process modification (See 20.6.2.3107C NMAC). The OCD Director may require the Permittee to submit a Discharge Permit modification application pursuant to 20.6.2.3109E NMAC and may modify or terminate a Discharge Permit pursuant to Sections 74-6-5(M) through (N) NMSA 1978.

1. If data submitted pursuant to any monitoring requirements specified in this Discharge Permit or other information available to the OCD Director indicate that 20.6.2 NMAC is being or may be violated, then the OCD Director may require modification or, if it is determined by the OCD Director that the modification may not be adequate, may terminate this Discharge Permit for a Class III well that was approved pursuant to the requirements of 20.6.2.5000 through 20.6.2.5399 NMAC for the following causes:

   a. Noncompliance by Permittee with any permit condition of this Discharge Permit; or,

   b. The Permittee's failure in the discharge permit application or during the discharge permit review process to disclose fully all relevant facts, or Permittee's misrepresentation of any relevant facts at any time; or,

   c. A determination that the permitted activity may cause a hazard to public health or undue risk to property and can only be regulated to acceptable levels by discharge permit modification or termination (See Section 75-6-6 NMSA 1978; 20.6.2.5101I NMAC; and, 20.6.2.3109E NMAC).

2. This Discharge Permit may also be modified or terminated for any of the following causes:

   a. Violation of any provisions of the Water Quality Act or any applicable regulations, standard of performance or water quality standards;

   b. Violation of any applicable state or federal effluent regulations or limitations; or

   c. Change in any permit condition that requires either a temporary or permanent reduction or elimination of the permitted discharge (See Section 75-6-5M NMSA 1978).

1.H. TRANSFER OF CLASS III WELL DISCHARGE PERMIT:

1. The transfer provisions of 20.6.2.3111 NMAC do not apply to a discharge permit for a Class III well.

2. Pursuant to 20.6.2.5101H NMAC, the Permittee may request to transfer its Class III well discharge permit if:

   a. The OCD Director receives written notice 30 days prior to the transfer date; and

   b. The OCD Director does not object prior to the proposed transfer date. OCD may require modifications to the discharge permit as a condition of transfer and may require demonstration of adequate financial responsibility.

3. The written notice required in accordance with Permit Condition 1.H.2.a shall:

   a. Have been signed by the Permittee and the succeeding Permittee, and shall include an acknowledgement that the succeeding Permittee shall be responsible for compliance with the Class III well discharge permit upon taking possession of the facility; and

   b. Set a specific date for transfer of the discharge permit responsibility, coverage and liability; and

   c. Include information relating to the succeeding Permittee's financial responsibility required by 20.6.2.5210B(17) NMAC.

1.I. COMPLIANCE AND ENFORCEMENT: If the Permittee violates or is violating a condition of this Discharge Permit, OCD may issue a compliance order that requires compliance immediately or within a specified time period, or assess a civil penalty, or both (See Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief, including injunctive relief (See Section 74-6-10(A)(2) NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (See Section 74-6-10.2 NMSA 1978).

2. GENERAL FACILITY OPERATIONS:

2.A. SEMI-ANNUAL MONITORING REQUIREMENTS FOR CLASS III WELLS: The Permittee may use either or both fresh water or water from otherwise non-potable sources. Pursuant to 20.6.2.5207C, the Permittee shall provide analysis of the injected fluids and brine at least semi-annually to yield data representative of their characteristics. The Permittee shall analyze both the injected fluids and brine for the following characteristics: pH; density, concentration of total dissolved solids (TDS); chloride concentration; and sodium concentration (for brine only).

1. **Groundwater Monitoring Well: Within 90 days of permit issuance**, the Permittee shall install a downgradient groundwater monitoring well within 50 feet of the brine well into the water table aquifer and collect a groundwater sample for general chemistry and WQCC 20.6.2.3103 NMAC groundwater constituents.

   Groundwater quality data shall comply with EPA Quality Assurance/Quality Control (QA/QC) and Data Quality Objectives (DQOs) and be submitted to OCD for review and comparison with historical water quality information within 30-days of monitoring well construction. The monitoring well construction shall comply with EPA Standards and be required to be sampled and monitored semi-annually thereafter for the following characteristics:

   - pH (Method 9040);
   - Eh;
   - Specific conductance;
   - Specific gravity;
   - Temperature; and
   - General groundwater quality parameters (general chemistry/cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, total dissolved solids, cation/anion balance, pH, and bromide using the methods specified in 40 CFR 136.3).

The environmental data results shall be reported in the Annual Report (Section 2.J).

2.B. SOLUTION CAVERN MONITORING PROGRAM:

1. **Surface Subsidence Monitoring Plan:** The Permittee shall submit a Surface Subsidence Monitoring Plan to OCD within 180 days of the effective date of this permit. The Surface Subsidence Monitoring Plan shall specify that the Permittee will install at least three survey monuments and shall include a proposal to monitor the elevation of the monuments and top of well casing at least semi-annually.

   The Permittee shall survey each survey monument and top of well casing at least semiannually to monitor for possible surface subsidence and shall tie each survey to the nearest USGS geodetic benchmark. The Permittee shall employ a licensed professional surveyor to conduct the subsidence monitoring program with proper instrument accuracy assessment at the conclusion of each survey. The Permittee shall submit the results of all subsidence surveys with summary of results and any recommendations to OCD within 15 days of survey completion. If the monitored surface subsidence survey at any measuring point deviates 0.10 ft. or more compared to its baseline elevation, then the Permittee shall notify OCD within 30 days of survey completion for further instructions. If survey results continue to demonstrate subsidence over time, and the Permittee cannot demonstrate the integrity of the cavern and well to the satisfaction of OCD, then it shall cease all brine production and submit a corrective action plan to mitigate the subsidence.

   The Permittee shall include the above information in the Annual Report (Section 2.J).

2. **Solution Cavern Characterization Program:** The Permittee shall submit a Solution Cavern Characterization Plan to characterize the size and shape of the solution cavern using geophysical methods within 180 days of the effective date of this permit, unless a plan has already been approved by OCD. Based upon the maturity of the cavern and upon OCD request, the Permittee shall characterize the size and shape of the solution cavern using a geophysical method or other approved method by OCD. The Permittee shall demonstrate that at least 90% of the calculated volume of salt removed based upon injection and production volumes has been accounted for by the approved method(s) for such testing to be considered truly representative.

   a. The Permittee shall provide an estimate of the size and shape of the solution cavern at least annually in the Annual Report (Section 2.J), based on fluid injection and brine production data.

b. The Permit shall compare the ratio of the volume of injected fluids to the volume of produced brine monthly. If the average ratio of injected fluid to produced brine varies is less than 90% or greater than 110%, or varies by greater than 20%, the Permittee shall report this to OCD and cease injection and production operations of its Class III well within 24 hours. The Permittee shall begin an investigation to determine the cause of this abnormal ratio within 72 hours. The Permittee shall regard the exceedance or variation to be an MIT failure, and shall submit to OCD a report of its investigation within 15 days of cessation of injection and production operations of its Class III well for further instructions from OCD.

3. **Annual Certification:** The Permittee shall certify annually in the Annual Report (Section 2.J) that continued salt solution mining will not cause cavern collapse, surface subsidence, property damage, or otherwise threaten public health and the environment, based on geologic and engineering data.

If the solution cavern is determined by either OCD or the Permittee to be potentially unstable by either direct or indirect means, then the Permittee shall cease all fluid injection and brine production within 24 hours. If the Permittee ceases operations because it or OCD has determined that the solution cavern is unstable, then it shall submit a plan to stabilize the solution cavern within 30 days. OCD may require the Permittee to implement additional subsidence monitoring and to conduct additional corrective action.

2.C. CONTINGENCY PLANS: The Permittee shall implement its proposed contingency plan(s) included in its Permit Application to cope with failure of a system(s) in the Discharge Permit.

2.D. CLOSURE: The Permittee shall submit for OCD approval, a facility closure plan with third-party cost estimate pursuant to 20.6.2.5209 NMAC and as specified in Permit Conditions 2.I and 5.B to address: well plug and abandonment, land surface restoration; environmental groundwater monitoring (if applicable); pipeline abandonment; and three years of surface subsidence monitoring.

1. Pre-Closure Notification: Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD's Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of its Class III well. Pursuant to 20.6.2.5005B NMAC, OCD's Environmental Bureau must approve all proposed well closure activities before Permittee may implement its proposed closure plan.

2. Required Information: The Permittee shall provide OCD's Environmental Bureau with the following information:

- Name of facility;
- Address of facility;
- Name of Permittee (and owner or operator, if appropriate);
- Address of Permittee (and owner or operator, if appropriate);
- Contact person;
- Phone number;
- Number and type of well(s);
- Year of well construction;
- Well construction details;
- Type of discharge;
- Average flow (gallons per day);
- Proposed well closure activities (e.g., sample fluids/sediment, appropriate disposal of remaining fluids/sediments, remove well and any contaminated soil, clean out well, install permanent plug, conversion to other type of well, groundwater and vadose zone investigation, other);
- Proposed date of well closure;
- Proposed method and date of surface restoration;
- Proposed method and date of pipeline abandonment;
- Name of preparer; and
- Date.

2.E. PLUGGING AND ABANDONMENT PLAN: Pursuant to 20.6.2.5209A NMAC, the Permittee shall submit to OCD a plugging and abandonment plan that meets the requirements of 20.6.2.3109C NMAC, 20.6.2.5101C NMAC, and 20.6.2.5005 NMAC for protection of groundwater. If requested by OCD, Permittee shall submit for approval prior to closure, a revised or updated plugging and abandonment plan. The obligation to implement the plugging and abandonment plan as well as the requirements of the plan survives the termination or expiration of this Discharge Permit. The Permittee shall comply with 20.6.2.5209 NMAC.

2.F RECORD KEEPING: The Permittee shall maintain records of all inspections, surveys, investigations, etc., required by this Discharge Permit at its Facility office for a minimum of five years and shall make those records available for inspection at the request of an OCD Representative.

2.G. RELEASE REPORTING: The Permittee shall comply with the following permit conditions, pursuant to 20.6.2.1203 NMAC, if it determines that a release of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, has occurred. The Permittee shall report unauthorized releases of water contaminants in accordance with any additional commitments made in its approved Contingency Plan. If the Permittee determines that any constituent exceeds the standards specified at 20.6.2.3103 NMAC, then it shall report a release to OCD's Environmental Bureau.

1. **Oral Notification:** As soon as possible after learning of such a discharge, but in no event more than twenty-four (24) hours thereafter, the Permittee shall notify OCD's Environmental Bureau. The Permittee shall provide the following:

   - The name, address, and telephone number of the person or persons in charge of the facility, as well as of the owner and/or operator of the facility;
   - The name and location of the facility;
   - The date, time, location, and duration of the discharge;
   - The source and cause of discharge;
   - A description of the discharge, including its chemical composition;
   - The estimated volume of the discharge; and,
   - Any corrective or abatement actions taken to mitigate immediate damage from the discharge.

2. **Written Notification:** Within one week after the Permittee has discovered a discharge, the Permittee shall send written notification (may use form C-141 with attachments) to OCD's Environmental Bureau verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification.

   The Permittee shall provide subsequent corrective actions and written reports as required by OCD's Environmental Bureau.

2.H. OTHER REQUIREMENTS:

1. **Inspection and Entry:** Pursuant to Section 74-6-9 NMSA 1978 and 20.6.2.3107A NMAC, the Permittee shall allow any authorized representative of the OCD Director, to:

   - Upon the presentation of proper credentials, enter the premises at reasonable times;
   - Inspect and copy records required by this Discharge Permit;
   - Inspect any treatment works, monitoring, and analytical equipment;
   - Sample any injection fluid or produced brine;
   - Conduct various types environmental media sampling, and
   - Use the Permittee's monitoring systems and wells in order to collect groundwater samples.

2. **Advance Notice:** The Permittee shall provide OCD's Environmental Bureau and Hobbs District Office with at least five (5) working days advance notice of any environmental sampling to be performed pursuant to this

Discharge Permit, or any well plugging, abandonment or decommissioning of any equipment associated with its Class III well.

3. **Environmental Monitoring:** The Permittee shall ensure that any environmental sampling and analytical laboratory data collected meets the standards specified in 20.6.2.3107B NMAC or EPA QA/QC Standards. The Permittee shall ensure that all environmental samples are analyzed by an accredited "National Environmental Laboratory Accreditation Conference" (NELAC) Laboratory. The Permittee shall submit environmental sampling data summary tables, all raw analytical data, and laboratory QA/QC.

   a. A monitor well shall be installed hydrogeologically downgradient from the Brine Well and sampled in accordance with Section 2.A.1.

2.I. BONDING OR FINANCIAL ASSURANCE: Pursuant to 20.6.2.5210B(17) NMAC, the Permittee shall maintain financial assurance, at a minimum, in the amount that Permittee shall estimate and the Director shall approve, in accordance with Permit Conditions 2.D and 5.B, to cover potential costs associated with plugging and abandonment of the Class III well, surface restoration, environmental groundwater monitoring (if applicable), pipeline abandonment, along with three years of surface subsidence monitoring thereafter. OCD may require additional financial assurance to ensure adequate funding is available to plug and abandon the well and/or for any required environmental related corrective actions. The Permittee's cost estimate shall be based on third person estimates.

Acceptable financial assurance mechanisms include: (1) a surety bond; (2) a trust fund with a New Mexico bank in the name of the State of New Mexico, with the State as Beneficiary; (3) a non-renewable letter of credit made out to the State of New Mexico; (4) liability insurance specifically covering the contingencies listed in this paragraph; or (5) a performance bond, generally in conjunction with another type of financial assurance. If an adequate bond is posted by the Permittee to a federal or another state agency, and this bond covers all of the measures specified above, the OCD Director shall consider this bond as satisfying the bonding requirements of Sections 20.6.2.5000 through 20.6.2.5399 NMAC wholly or in part, depending upon the extent to which such bond is adequate to ensure that the Permittee will fully perform the measures required herein above.

2.J. ANNUAL REPORT: The Permittee shall submit its annual report pursuant to 20.6.2.3107 NMAC to OCD's Environmental Bureau by June 1st of the following year. The annual report shall include the following:

- Cover sheet marked as "Annual Class III Well Report, Name of Permittee, Discharge Permit Number, API number of well(s), date of report, and person submitting report;
- Summary of Class III well operations for the year including a description and reason for any remedial or major work on the well with a copy of form C-103;
- Monthly fluid injection and brine production volume, including the cumulative total carried over each year;
- Semi-annual monitor well analytical data results;
- Injection pressure data;
- Pipeline hydrostatic test results;
- Pipeline visual leak inspection monitoring results at joints;
- A copy of the quarterly chemical analyses shall be included with data summary and all QA/QC information;
- Copy of any mechanical integrity test chart, including the type of test, i.e., duration, gauge pressure, etc.;
- Brief explanation describing deviations from the normal operations;
- Results of any leaks and spill corrective action reports;
- An Area of Review (AOR) update summary;
- A summary with interpretation of MITs, surface subsidence surveys, estimated cavern size and shape, cavern volume and geometry measurements with conclusion(s) and recommendation(s);
- A summary of the ratio of the monthly volume of injected fluids to the volume of produced brine;
- A summary of all major Facility activities or events, which occurred during the year with any conclusions and recommendations;
- Annual Surface Subsidence Monitoring Plan data results in accordance with Permit Condition 2.B.1;
- Annual Solution Cavern Characterization data results in accordance with Permit Condition 2.B.2;
- Annual certification in accordance with Permit Condition 2.B.3; and

- The Permittee shall file its Annual Report in an electronic format with a hard copy submittal to OCD's Environmental Bureau.

3. CLASS III WELL OPERATIONS:

Owner/Operator Commitments. Once a permit is issued, the owner/operator must ensure all operations are consistent with the terms and conditions of the permit and in conformance with all pertinent rules and regulations under the Water Quality Act. The owner/operator shall abide by all commitments submitted in its discharge permit application including any attachments and/or amendments along with these approval conditions. Applications which reference previously approved plans on file with the OCD shall be incorporated into this permit and the owner/operator shall abide by all commitments of such plans.

3.A. OPERATING REQUIREMENTS: The Permittee shall comply with the operating requirements specified in 20.6.2.5206A NMAC and 20.6.2.5206A NMAC to ensure that:

1. **Brine Production Method:** During the daily brine production, a "normal flow" configuration consisting of fresh water injection shall occur through the 2-3/8 in. tubing at approximately 2,460 ft. bgl, and brine production through the 5-1/2 in. flush joint casing annulus directed through and within a whipstock window in 7 in. casing offset at an approximate depth of 1,734 ft. bgl to a depth of 2,100 ft. bgl, which is approximately 100 ft. below the top of the Salado "Salt" Formation at approximately 2,000 ft. bgl. Injection and production flow may temporarily be reversed as required periodically to clean the tubing and annulus. However, a "normal flow" regime is required during daily injection and production operations and shall only occur within the intended solution mining interval.

2. **Injection Out of Zone:** Injection between the outermost casing and the well bore is prohibited in a zone other than the authorized injection zone. If the Permittee determines that its Class III well is discharging or suspects that it is discharging fluids into a zone or zones other than the permitted injection zone specified in Permit Condition 3.B.1., then the Permittee shall within 24 hours notify OCD's Environmental Bureau and Hobbs District Office of the circumstances and action(s) taken. The Permittee shall cease operations until proper repairs are made and it has received approval from OCD to re-start injection operations.

3. **Pipeline:** Hydrostatic testing of brine pipeline is required after repair for any pipeline pressure loss, leakage, etc. The hydrostatic test report with "as-built" pipeline transect, and associated construction information shall be submitted to OCD for approval within 3 months of permit issuance. Mandatory hydrostatic testing of the pipeline is required after leakage and/or before the expiration date of the Permit. Daily pipeline inspection and monitoring is required at a minimum for the first week of permit issuance and each time the pipeline is brought back into service after shut-down, service work, etc. The pipeline shall be inspected within 8-hours of pipeline pressure loss, upset, etc. Weekly inspection and monitoring at a minimum is required thereafter. Inspection record keeping is required and shall include the date and time of each inspection, inspectors name and contact information, weather conditions with inspection summary, any conclusion on pipeline condition with any recommendations. Spills or release locations shall include NAD83 GPS Coordinates and be handled in accordance with Permit Condition 2.G Release Reporting herein.

3.B. INJECTION OPERATIONS:

1. **Well Injection Pressure Limit:** The Permittee shall ensure that the maximum wellhead or surface injection pressure of 400 psig on its Class III well shall not exceed the fracture pressure in the injection salt formation and will not cause new fractures or propagate any existing fractures or cause damage to the system and underground source of drinking water.

2. **Pressure Limiting Device:** The Permittee shall equip and operate its Class III well or system with a pressure limiting device which shall, at all times, limit surface injection pressure to the maximum allowable pressure of 400 psig for its Class III well. The Permittee shall monitor the pressure-limiting device daily and shall report all pressure exceedances within 24 hours of detecting an exceedance to OCD's Environmental Bureau.

The Permittee shall take all steps necessary to ensure that the injected fluids enter only the proposed injection interval and is not permitted to escape to other formations, fresh water zones, or onto the ground surface. The Permittee shall report to OCD's Environmental Bureau within 24 hours of discovery any indication that new fractures or existing fractures have been propagated, or that damage to the well, the injection zone, or formation has occurred.

3.C. CONTINUOUS MONITORING DEVICES: The Permittee shall use continuous monitoring devices to provide a record of surface injection pressure, flow rate, flow volume, and pressure on the annulus between the tubing and the long string of casing.

3.D. MECHANICAL INTEGRITY FOR CLASS III WELLS:

1. Pursuant to 20.6.2.5204 NMAC, the Permittee shall demonstrate mechanical integrity for its Class III well at least once every five years or more frequently as the OCD Director may require for good cause during the life of the well. The Permittee shall demonstrate mechanical integrity for its Class III well every time it performs a well workover, including when it pulls the tubing. A Class III well has mechanical integrity if there is no detectable leak in the casing or tubing which OCD considers to be significant at maximum operating temperature and pressure; and no detectable conduit for fluid movement out of the injection zone through the well bore or vertical channels adjacent to the well bore which the OCD Director considers to be significant. The Permittee shall conduct a casing Mechanical Integrity Test (MIT) from the surface to the approved injection depth to assess casing integrity. The MIT shall consist of a 30-minute test at a minimum pressure of 500 psig measured at the surface when tubing is removed, and a plug is installed within 20 ft. of the casing shoe depth. Alternatively, the MIT may consist of a casing/cavern 4-hr. test at a minimum pressure of 300 psig measured at the surface when the cavern and casing are full and tubing remains in the well. More work is required in the "casing/cavern" test in the event of failure to determine the actual cause.

   The Permittee shall notify OCD's Environmental Bureau and Hobbs District Office at least 5 days prior to conducting any MIT to allow OCD Hobbs the opportunity to witness the MIT.

2. The following criteria will determine if the Class III well has passed the MIT:

   a. Passes MIT if zero bleed-off during the test;
   b. Passes casing MIT if final test pressure is within +/- 10% of starting pressure, if approved by OCD (Note: Passes cavern test on a case-by-case basis determined by OCD);
   c. When the MIT is not witnessed by OCD and fails, the Permittee shall notify OCD within 24 hours of the failure of the MIT.
   d. All chart recorder information, charts containing appropriate information, calibration sheets, etc. shall be provided to OCD within 5 working days of completing an MIT.

3. Pursuant to 20.6.2.5204C NMAC, the OCD Director may consider the use by the Permittee of equivalent alternative test methods to determine mechanical integrity. The Permittee shall submit information on the proposed test and all technical data supporting its use. The OCD Director may approve the Permittee's request if it will reliably demonstrate the mechanical integrity of the well for which its use is proposed.

4. Pursuant to 20.6.2.5204D NMAC, when conducting and evaluating the MIT(s), the Permittee shall apply methods and standards generally accepted in the oil and gas industry. When the Permittee reports the results of all MIT(s) to the OCD Director, it shall include a description of the test(s), the method(s) used, and the test results.

3.E. WELL WORKOVER OPERATIONS: Pursuant to 20.6.2.5205A(5) NMAC, the Permittee shall provide notice to and shall obtain approval from OCD prior to commencement of any remedial work or any other workover operations to allow OCD the opportunity to witness the operation. The Permittee shall request approval using form C-103 (Sundry Notices and Reports on Wells). Properly completed Forms C-103 and/or C-105 must be filed with OCD upon completion of workover activities and copies included in that year's Annual Report (Section 2.J).

3.F. FLUIDS INJECTION AND BRINE PRODUCTION VOLUMES AND PRESSURES: The Permittee shall continuously monitor the volumes of water injected and brine production. The Permittee shall submit monthly reports of its injection and production volumes on or before the 10th day of the following month. The Permittee shall suspend injection if the monthly injection volume is less than 110% or greater than 120% of associated brine production. If such an event occurs, the Permittee shall notify OCD within 24 hours.

3.G. AREA OF REVIEW (AOR): The Permittee shall report within 72 hours of discovery any new wells, conduits, or any other device that penetrates or may penetrate the injection zone within a 1-mile radius from its Class III well. OCD shall be notified within 24 hours of having knowledge of any wells lacking cement within the cavern interval within a ½-mile radius from the Class III well.

4. **CLASS V WELLS:** Pursuant to 20.6.2.5002B NMAC, leach fields and other waste fluids disposal systems that inject non-hazardous fluid into or above an underground source of drinking water are UIC Class V injection wells. This Discharge Permit does not authorize the use of a Class V injection well for the disposal of industrial waste. Pursuant to 20.6.2.5005 NMAC, the Permittee shall close any Class V industrial waste injection well that injects non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes (e.g., septic systems, leach fields, dry wells, etc.) within 90 calendar days of the issuance of this Discharge Permit. The Permittee shall document the closure of any Class V wells used for the disposal of non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes other than contaminated groundwater in its Annual Report. Other Class V wells, including wells used only for the injection of domestic wastes, shall be permitted by the New Mexico Environment Department.

5. SCHEDULE OF COMPLIANCE:

5.A. ANNUAL REPORT: The Permittee shall submit its annual report to OCD by June 1st of each year.

5.B. BONDING OR FINANCIAL ASSURANCE: The Permittee shall submit an estimate of the minimum cost to properly close, plug and abandon its Class III well, conduct groundwater restoration if applicable, and any post-operational monitoring as may be needed (see 20.6.2. 5210B(17) NMAC). The Permittee's cost estimate shall be based on third person estimates. After review, OCD will require the Permittee to submit a single well plugging bond based on the third person cost estimate.

5.C. SURFACE SUBSIDENCE MONITORING PLAN: The Permittee shall submit the Surface Subsidence Monitoring Plan required in accordance with Permit Condition 2.B.1 within 180 days of permit issuance.

5.D. SOLUTION CAVERN CHARACTERIZATION PLAN: The Permittee shall submit the Solution Cavern Characterization Plan required in accordance with Permit Condition 2.B.2 within 180 days of permit issuance.

Sante Fe Main Office
Phone: (505) 476-3441

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

COMMENTS

Operator: WASSERHUND INC P.O. Box 2140 Lovington, NM 88260	OGRID: 130851
	Action Number: 483979
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

COMMENTS

Created By	Comment	Comment Date
cchavez	BW-4 Annual Report 2024 OCD utilized the standard 10# brine conversion formulas to derive and cross-check the Permittee's Cavern Safety Ratio and estimated max. cavern diameter implementing the "Right Circular Cone" Volume Algorithm. Cumulative Brine Produced ~ 10,460,933 bbls Salt Cavern Height (h) ~ 360 ft. OCD derived the following: Max. Salt Cavern Diameter ~ 382 ft. D/H ~ 0.1822 << 0.5 (Cavern Safe Determination)	8/15/2025

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
cchavez	Condition of Approval: 1. Future Monument Survey Summary of all surveys shall be compared against the original survey with footages provided to determine when a monument survey location exceeds the permit stipulated limit for reporting.	8/15/2025