



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

May 21, 2025

LESTER WAYNE PRICE JR
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 05/05/25 14:30.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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



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-4 Project Manager: LESTER WAYNE PRICE JR Fax To:	Reported: 21-May-25 17:03
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH	H252669-01	Water	05-May-25 11:00	05-May-25 14:30
BRINE	H252669-02	Water	05-May-25 11:10	05-May-25 14:30

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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-4 Project Manager: LESTER WAYNE PRICE JR Fax To:	Reported: 21-May-25 17:03
---	---	------------------------------

FRESH
H252669-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride*	60.0		4.00	mg/L	1	5050616	AC	06-May-25	4500-Cl-B	
Density	0.99677			g/mL	1	5050516	AC	06-May-25	SM 2710F	
pH*	7.84		0.100	pH Units	1	5050525	AC	05-May-25	150.1	PH-HT
Temperature °C	19.1			pH Units	1	5050525	AC	05-May-25	150.1	PH-HT
TDS*	388		5.00	mg/L	1	5050646	HM	08-May-25	160.1	

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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-4 Project Manager: LESTER WAYNE PRICE JR Fax To:	Reported: 21-May-25 17:03
---	---	------------------------------

BRINE
H252669-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride*	200000		4.00	mg/L	1	5050616	AC	06-May-25	4500-Cl-B	
Density	1.2046			g/mL	1	5050516	AC	06-May-25	SM 2710F	
pH*	6.64		0.100	pH Units	1	5050525	AC	05-May-25	150.1	PH-HT
Temperature °C	19.8			pH Units	1	5050525	AC	05-May-25	150.1	PH-HT
TDS*	311000		5.00	mg/L	1	5050646	HM	08-May-25	160.1	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Lithium	<20.0		20.0	mg/L	200	B251240	AWG	16-May-25	EPA 200.7	
Sodium*	111000		500	mg/L	500	B251240	AWG	16-May-25	EPA 200.7	

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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-4 Project Manager: LESTER WAYNE PRICE JR Fax To:	Reported: 21-May-25 17:03
---	---	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5050516 - General Prep - Wet Chem

Duplicate (5050516-DUP1)		Source: H252645-01		Prepared & Analyzed: 05-May-25						
Density	1.006		g/mL		1.006			0.00397	20	

Batch 5050525 - General Prep - Wet Chem

LCS (5050525-BS1)		Prepared & Analyzed: 05-May-25								
pH	7.01		pH Units	7.00		100	90-110			
Duplicate (5050525-DUP1)		Source: H252669-01		Prepared & Analyzed: 05-May-25						
pH	7.85	0.100	pH Units		7.84			0.127	20	
Temperature °C	19.2		pH Units		19.1			0.522	200	

Batch 5050616 - General Prep - Wet Chem

Blank (5050616-BLK1)		Prepared & Analyzed: 06-May-25								
Chloride	ND	4.00	mg/L							

LCS (5050616-BS1)		Prepared & Analyzed: 06-May-25								
Chloride	100	4.00	mg/L	100		100	80-120			

LCS Dup (5050616-BSD1)		Prepared & Analyzed: 06-May-25								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

Batch 5050646 - Filtration

Blank (5050646-BLK1)		Prepared: 06-May-25 Analyzed: 08-May-25								
TDS	ND	5.00	mg/L							

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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-4 Project Manager: LESTER WAYNE PRICE JR Fax To:	Reported: 21-May-25 17:03
---	---	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5050646 - Filtration										
LCS (5050646-BS1)										
TDS	510		mg/L	500		102	80-120			Prepared: 06-May-25 Analyzed: 08-May-25
Duplicate (5050646-DUP1)										
TDS	4950	5.00	mg/L		4890			1.10	20	Source: H252645-01 Prepared: 06-May-25 Analyzed: 08-May-25

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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-4 Project Manager: LESTER WAYNE PRICE JR Fax To:	Reported: 21-May-25 17:03
---	---	------------------------------

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 B251240 - Total Recoverable by ICP

Blank (B251240-BLK1) Prepared: 12-May-25 Analyzed: 16-May-25

Sodium	ND	1.00	mg/L							
Lithium	ND	0.100	mg/L							

LCS (B251240-BS1) Prepared: 12-May-25 Analyzed: 16-May-25

Lithium	2.03	0.100	mg/L	2.00		102	85-115			
Sodium	1.57	1.00	mg/L	1.62		96.9	85-115			

LCS Dup (B251240-BSD1) Prepared: 12-May-25 Analyzed: 16-May-25

Sodium	1.61	1.00	mg/L	1.62		99.5	85-115	2.66	20	
Lithium	2.04	0.100	mg/L	2.00		102	85-115	0.423	20	

Matrix Spike (B251240-MS1) Source: 2505106-01 Prepared: 12-May-25 Analyzed: 16-May-25

Lithium	2.06	0.500	mg/L	2.00	0.201	93.0	70-130			
Sodium	503	5.00	mg/L	1.62	527	NR	70-130			M3

Matrix Spike (B251240-MS2) Source: 2505110-01 Prepared: 12-May-25 Analyzed: 16-May-25

Lithium	2.16	0.400	mg/L	2.00	0.370	89.4	70-130			
Sodium	375	4.00	mg/L	1.62	391	NR	70-130			M3

Matrix Spike Dup (B251240-MSD1) Source: 2505106-01 Prepared: 12-May-25 Analyzed: 16-May-25

Lithium	1.98	1.00	mg/L	2.00	0.201	89.1	70-130	3.86	20	
Sodium	511	10.0	mg/L	1.62	527	NR	70-130	1.65	20	M3

Matrix Spike Dup (B251240-MSD2) Source: 2505110-01 Prepared: 12-May-25 Analyzed: 16-May-25

Sodium	386	5.00	mg/L	1.62	391	NR	70-130	3.02	20	M3
Lithium	2.23	0.500	mg/L	2.00	0.370	93.0	70-130	3.22	20	

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- PH-HT Analyzed outside the EPA recommended hold time of 15 minutes.
- M3 Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
- 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

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: **WASSERHUND**
 Project Manager: **LESTER WAYNE PRICE JR**
 Address: **7 SIKAMORE LN**
 City: **WALDENWOOD** State: **NM** Zip: **88039**
 Phone #: **505 715 2809** Fax #: **NA**
 Project #: **BW-4** Project Owner: **JOHN BANDY**
 Project Location: **BACKEYE NM**
 Sampler Name: **LESTER WAYNE PRICE JR**
 P.O. #: **WASSERHUND**
 Company: **WASSERHUND**
 Attn: **JOHN BANDY**
 Address: **PO Box 2041**
 City: **Lounnfton**
 State: **NM** Zip: **88260**
 Phone #: **575-369-9909**
 Fax #: **NA**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	pH	DENSITY	TDS	CL	SODIUM + LITHIUM
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									
<i>ABS 3469</i>	<i>1</i>	<i>FRESH</i>	<i>1L</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>X</i>	<i>5/5/05</i>	<i>11:00 AM</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
	<i>2</i>	<i>BRINE</i>	<i>1L HNO3</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>X</i>	<i>5/5/05</i>	<i>11:10 AM</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
		<i>BRINE</i>	<i>250 ML</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>X</i>	<i>5/5/05</i>	<i>11:20 AM</i>	<i>X</i>				<i>X</i>	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's excludes remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 defined categories or otherwise.

Relinquished By: **LESTER WAYNE PRICE JR** Date: **5/5/05** Time: **11:30**
 Received By: *[Signature]* Date: **5/5/05** Time: **11:30**
 Remarks: **FRESH FROM FRESH TANK**
BRINE FROM BRINE TANKS

Delivered By: (Circle One) **UPS** Observed Temp. °C **4.1** Corrected Temp. °C **4.14**
 Sampler - UPS - Bus - Other: **UPS** Sample Condition: **Intact**
 Turnaround Time: **Standard** Bacteria (only) Sample Condition: **Intact**
 Thermometer ID #140 Correction Factor: **-0.3°C** Rush **10.3°C** Observed Temp. °C **4.1** Corrected Temp. °C **3.8**

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

COMMENTS

Action 469489

COMMENTS

Operator: WASSERHUND INC P.O. Box 2140 Lovington, NM 88260	OGRID: 130851
	Action Number: 469489
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

COMMENTS

Created By	Comment	Comment Date
cchavez	Chemical Sampling Data: Freshwater Source & Brine Fluids The freshwater analytical is missing Oxidation/Reduction (Eh) & Specific Conductivity (SC).	6/18/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 469489

CONDITIONS

Operator: WASSERHUND INC P.O. Box 2140 Lovington, NM 88260	OGRID: 130851
	Action Number: 469489
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Conditions of Approval: 1. Freshwater source analytical data must include Eh and SC. 2. Review Discharge Permit Condition Section 2.A.	6/18/2025