

BW-004

ANNUAL

REPORT

2021

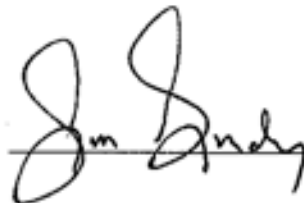
Wasserhund Inc.
P.O. Box 2140
575-396-0522
FAX 575-396-0797
Lovington, New Mexico 88260

ANNUAL CLASS III WELL REPORT FOR 2021

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

 Date: 5/31/22

Summary of Operations: Normal operations with reduced sells of brine water.

Production Volumes and Ratio. Injection production/ comparison chart of injected water to produced water attached herein.

Injection Pressure Data: 260-280 psig Pressure limit of 315 # for casing.

Chemical Analysis: Attached.

Mechanical Integrity: A casing/cavern test was ran in August of 2021. OCD witnessed and chart included in the attachments.

Deviations from Normal Production Methods: Normal Flow per OCD.

Leak and Spill Reports: None in 2021.

Area of Review Update Summary: No change from 2019 report, as verified by OCD well records and on-site observations.

Subsidence/Cavern Volumes/Geometric Measurements

SOLUTION CAVERN MONITORING PROGRAM: No monitors at site received an extension due to COVID-19. Wasserhund believes monitors are not warranted due to low D/H and hereby requests an exemption.

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 was included for reference and a mass balance was calculated for the 2021 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 2021 results are within the limit. See attachments.

The plan also includes the critical d/h calculation, which is .155 for the 2021-year report, which is well under the limit of .50.

Summary of Activities: Normal operations with somewhat 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. No issues noted.

Annual Reporting: Filed in new OCD electronic system

[illegible]

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

February 12, 2021

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 02/04/21 10:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	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,

A handwritten signature in black ink that reads "Celest D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celest 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 - 04
Project Manager: WAYNE PRICE
Fax To:

Reported:
12-Feb-21 11:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BW - 04 BRINE (BW)	H210281-01	Water	03-Feb-21 17:20	04-Feb-21 10:06
BW - 04 FRESH (FW)	H210281-02	Water	03-Feb-21 17:35	04-Feb-21 10:06

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:
12-Feb-21 11:31

BW - 04 BRINE (BW)

H210281-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride*	160000		4.00	mg/L	1	1012905	AC	04-Feb-21	4500-Cl-B	
pH*	6.01		0.100	pH Units	1	1020403	AC	04-Feb-21	150.1	
Temperature °C	21.3			pH Units	1	1020403	AC	04-Feb-21	150.1	
Specific Gravity @ 60° F	1.172		0.000	[blank]	1	1020406	AC	04-Feb-21	SM 2710F	
TDS*	275000		5.00	mg/L	1	1020103	GM	05-Feb-21	160.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Sodium*	94000		1000	mg/L	1000	B210299	AES	10-Feb-21	EPA200.7	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:
12-Feb-21 11:31

BW - 04 FRESH (FW)**H210281-02 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride*	404		4.00	mg/L	1	1012905	AC	04-Feb-21	4500-Cl-B	
pH*	7.11		0.100	pH Units	1	1020403	AC	04-Feb-21	150.1	
Temperature °C	21.3			pH Units	1	1020403	AC	04-Feb-21	150.1	
Specific Gravity @ 60° F	1.010		0.000	[blank]	1	1020406	AC	04-Feb-21	SM 2710F	
TDS*	596		5.00	mg/L	1	1020103	GM	08-Feb-21	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:
12-Feb-21 11:31

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1012905 - General Prep - Wet Chem

Blank (1012905-BLK1) Prepared: 29-Jan-21 Analyzed: 01-Feb-21

Chloride ND 4.00 mg/L

LCS (1012905-BS1) Prepared: 29-Jan-21 Analyzed: 01-Feb-21

Chloride 104 4.00 mg/L 100 104 80-120

LCS Dup (1012905-BSD1) Prepared: 29-Jan-21 Analyzed: 01-Feb-21

Chloride 100 4.00 mg/L 100 100 80-120 3.92 20

Batch 1020103 - Filtration

Blank (1020103-BLK1) Prepared: 01-Feb-21 Analyzed: 03-Feb-21

TDS ND 5.00 mg/L

LCS (1020103-BS1) Prepared: 01-Feb-21 Analyzed: 03-Feb-21

TDS 493 mg/L 500 98.6 80-120

Duplicate (1020103-DUP1) Source: H210209-08 Prepared: 01-Feb-21 Analyzed: 03-Feb-21

TDS 245000 5.00 mg/L 250000 1.86 20

Batch 1020403 - General Prep - Wet Chem

LCS (1020403-BS1) Prepared & Analyzed: 04-Feb-21

pH 7.02 pH Units 7.00 100 90-110

Duplicate (1020403-DUP1) Source: H210272-01 Prepared & Analyzed: 04-Feb-21

pH 6.59 0.100 pH Units 6.80 3.14 20

Temperature °C 22.4 pH Units 22.4 0.00 200

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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:
12-Feb-21 11:31

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1020406 - General Prep - Wet Chem**Duplicate (1020406-DUP1)****Source: H210281-01****Prepared & Analyzed: 04-Feb-21**

Specific Gravity @ 60° F	1.177	0.000	[blank]	1.172	0.463	20
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Celey D. Keene, Lab Director/Quality Manager



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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:
12-Feb-21 11:31

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 B210299 - Total Rec. 200.7/200.8/200.2										
Blank (B210299-BLK1)				Prepared: 08-Feb-21 Analyzed: 10-Feb-21						
Sodium	ND	1.00	mg/L							
LCS (B210299-BS1)				Prepared: 08-Feb-21 Analyzed: 10-Feb-21						
Sodium	3.40	1.00	mg/L	3.24		105	85-115			
LCS Dup (B210299-BSD1)				Prepared: 08-Feb-21 Analyzed: 10-Feb-21						
Sodium	3.40	1.00	mg/L	3.24		105	85-115	0.0834	20	

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

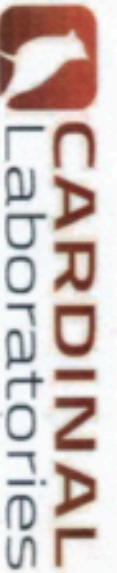
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

Cardinal Laboratories***=Accredited Analyte**

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: WASSERHUPP INC Project Manager: WAYNE PRICE - PRICE LLC Address: _____ City: _____ State: _____ Zip: _____ Phone #: 505-715-2809 Fax #: _____ Project #: BU-04 Project Owner: WASSERHUPP Project Name: PRICE ST Project Location: 5050 31-165-36E Sampler Name: WAYNE PRICE		P.O. #: _____ Company: PRICE LLC Attn: WAYNE PRICE@q.com Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY		BILL TO	
Lab I.D. HA10281 BU-04 FRESH (FW)	Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: WATER ACID/BASE: ICE / COOL OTHER:	ANALYSIS REQUEST	
		TDS, SG, CL's, PH TDS, SG, CL's, PH + PA	
Relinquished By: Wayne Price Date: 2/4/21 Time: 1000 Received By: Guiana Clark Date: 2/3/21 Time: 5:30 PM		Vertical Result: ☐ Yes ☒ No Add Phone #: _____ Remarks: BU TAKER FROM DRIVE TANK FWD " BULK HEAD Turnaround Time: Standard ☐ Rush ☐ Thermometer ID #113 ☐ Bacteria (only) Sample Condition Correction Factor None ☐ Cool Intact ☐ Observed Temp. °C Corrected Temp. °C	
Delivered By: (Circle One) ☒ Observed Temp. °C 44.4 Sampler - UPS - Bus - Other: ☐ Corrected Temp. °C _____		CHECKED BY: (Initials) [Signature]	

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

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

April 25, 2022

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 04/13/22 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	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,

A handwritten signature in black ink that reads "Celest D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celest 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: EDISON BRINE STATION - QT 202
Project Manager: WAYNE PRICE
Fax To:

Reported:
25-Apr-22 17:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER	H221528-01	Water	13-Apr-22 11:00	13-Apr-22 12:40
BRINE WATER	H221528-02	Water	13-Apr-22 11:00	13-Apr-22 12:40

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WASSERHUND INC.
P.O. BOX 2140
LOVINGTON NM, 88260

Project: BUCKEYE BRINE STATION BW-04
Project Number: EDISON BRINE STATION - QT 202
Project Manager: WAYNE PRICE
Fax To:

Reported:
25-Apr-22 17:23

FRESH WATER

H221528-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride*	12.0		4.00	mg/L	1	2041330	GM	20-Apr-22	4500-Cl-B	
pH*	6.08		0.100	pH Units	1	2041401	AC	14-Apr-22	150.1	
Temperature °C	19.4			pH Units	1	2041401	AC	14-Apr-22	150.1	
Specific Gravity @ 60° F	0.9934		0.000	[blank]	1	2041406	AC	14-Apr-22	SM 2710F	
TDS*	40.0		5.00	mg/L	1	2040702	GM	18-Apr-22	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: EDISON BRINE STATION - QT 202
Project Manager: WAYNE PRICE
Fax To:

Reported:
25-Apr-22 17:23

BRINE WATER
H221528-02 (Water)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride*	174000		4.00	mg/L	1	2041330	GM	20-Apr-22	4500-Cl-B	
pH*	6.34		0.100	pH Units	1	2041401	AC	14-Apr-22	150.1	
Temperature °C	19.4			pH Units	1	2041401	AC	14-Apr-22	150.1	
Specific Gravity @ 60° F	1.189		0.000	[blank]	1	2041406	AC	14-Apr-22	SM 2710F	
TDS*	297000		5.00	mg/L	1	2040702	GM	18-Apr-22	160.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Sodium*	97000		1000	mg/L	1000	B220993	AES	20-Apr-22	EPA200.7	
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P.O. BOX 2140
LOVINGTON NM, 88260

Project: BUCKEYE BRINE STATION BW-04
Project Number: EDISON BRINE STATION - QT 202
Project Manager: WAYNE PRICE
Fax To:

Reported:
25-Apr-22 17:23

Inorganic Compounds - Quality Control**Cardinal Laboratories**

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

Batch 2040702 - Filtration

Blank (2040702-BLK1) Prepared: 07-Apr-22 Analyzed: 08-Apr-22

TDS ND 5.00 mg/L

LCS (2040702-BS1) Prepared: 07-Apr-22 Analyzed: 08-Apr-22

TDS 521 mg/L 500 104 80-120

Duplicate (2040702-DUP1) Source: H221329-02 Prepared: 07-Apr-22 Analyzed: 08-Apr-22

TDS 584 5.00 mg/L 594 1.70 20

Batch 2041330 - General Prep - Wet Chem

Blank (2041330-BLK1) Prepared & Analyzed: 13-Apr-22

Chloride ND 4.00 mg/L

LCS (2041330-BS1) Prepared & Analyzed: 13-Apr-22

Chloride 100 4.00 mg/L 100 100 80-120

LCS Dup (2041330-BSD1) Prepared & Analyzed: 13-Apr-22

Chloride 104 4.00 mg/L 100 104 80-120 3.92 20

Batch 2041401 - General Prep - Wet Chem

LCS (2041401-BS1) Prepared & Analyzed: 14-Apr-22

pH 7.09 pH Units 7.00 101 90-110

Duplicate (2041401-DUP1) Source: H221516-01 Prepared & Analyzed: 14-Apr-22

pH 6.63 0.100 pH Units 6.59 0.605 20

Temperature °C 19.4 pH Units 19.4 0.00 200

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

WASSERHUND INC.
P.O. BOX 2140
LOVINGTON NM, 88260

Project: BUCKEYE BRINE STATION BW-04
Project Number: EDISON BRINE STATION - QT 202
Project Manager: WAYNE PRICE
Fax To:

Reported:
25-Apr-22 17:23

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2041406 - General Prep - Wet Chem**Duplicate (2041406-DUP1)****Source: H221528-01****Prepared & Analyzed: 14-Apr-22**

Specific Gravity @ 60° F	0.9945	0.000	[blank]		0.9934			0.111	20	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WASSERHUND INC.
P.O. BOX 2140
LOVINGTON NM, 88260

Project: BUCKEYE BRINE STATION BW-04
Project Number: EDISON BRINE STATION - QT 202
Project Manager: WAYNE PRICE
Fax To:

Reported:
25-Apr-22 17:23

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 B220993 - Total Recoverable by ICP										
Blank (B220993-BLK1)										
Sodium	ND	1.00	mg/L							Prepared: 19-Apr-22 Analyzed: 20-Apr-22
LCS (B220993-BS1)										
Sodium	1.56	1.00	mg/L	1.62		96.4	85-115			Prepared: 19-Apr-22 Analyzed: 20-Apr-22
LCS Dup (B220993-BSD1)										
Sodium	1.50	1.00	mg/L	1.62		92.6	85-115	4.09	20	

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Notes and Definitions

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

Cardinal Laboratories***=Accredited Analyte**

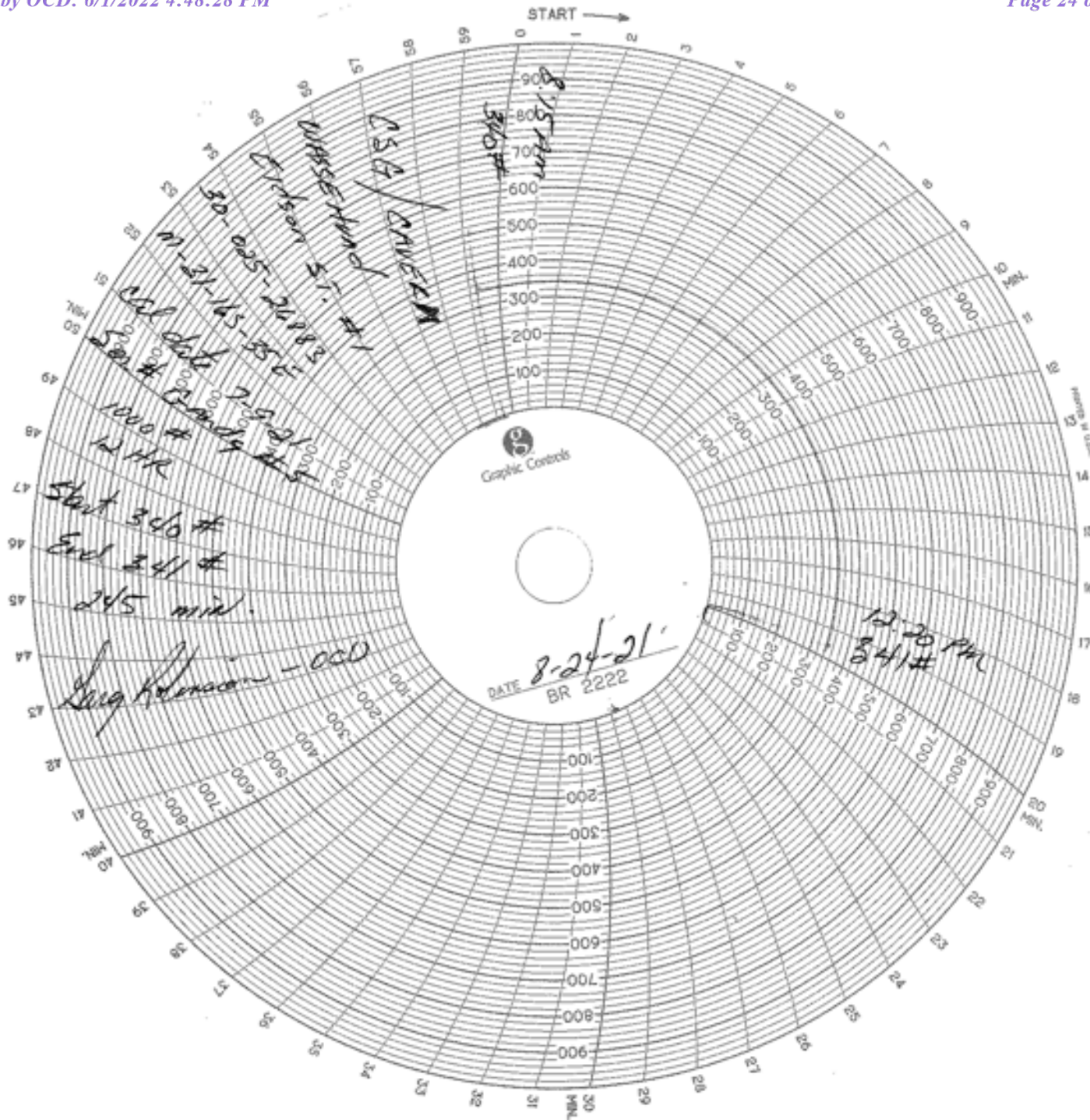
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A handwritten signature in cursive script, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Wasseband Inc Project Manager: Wayne Price Address: PO Box 2073 City: Huntington Phone #: 575 369 9909 Project #: Quarterly 2002 Project Name: Edison Brine Station Project Location: Edison Brine Station Sample Name:		State: Wm Zip: 88260 Attn: Son Gandy Address: PO Box 2076 City: Huntington State: Wm Zip: 88260 Phone #: 575 369 9909 Fax #:		P.O. #: Company: Wasseband	
Lab I.D.: Sample I.D.:		FOR LAB USE ONLY		BILL TO	
Lab I.D.: H221528 Sample I.D.: 1 Fresh water 2 Brine water		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING	
DATE TIME		DATE TIME		CL PH Spec Grav. TDS Sodium 200.7	
Relinquished By: Received By:		Relinquished By: Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Turnaround Time: Standard Rush	
Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
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Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
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Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	
Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes No		Checked By: (Initials)	



D & L Meters & Instrument Service, Inc.

Lovington, NM 88260
P.O. Box 1621
Office: (575) 396-3715
Fax: (575) 396-5812



Date: Friday, July 9, 2021

Invoice # 126263

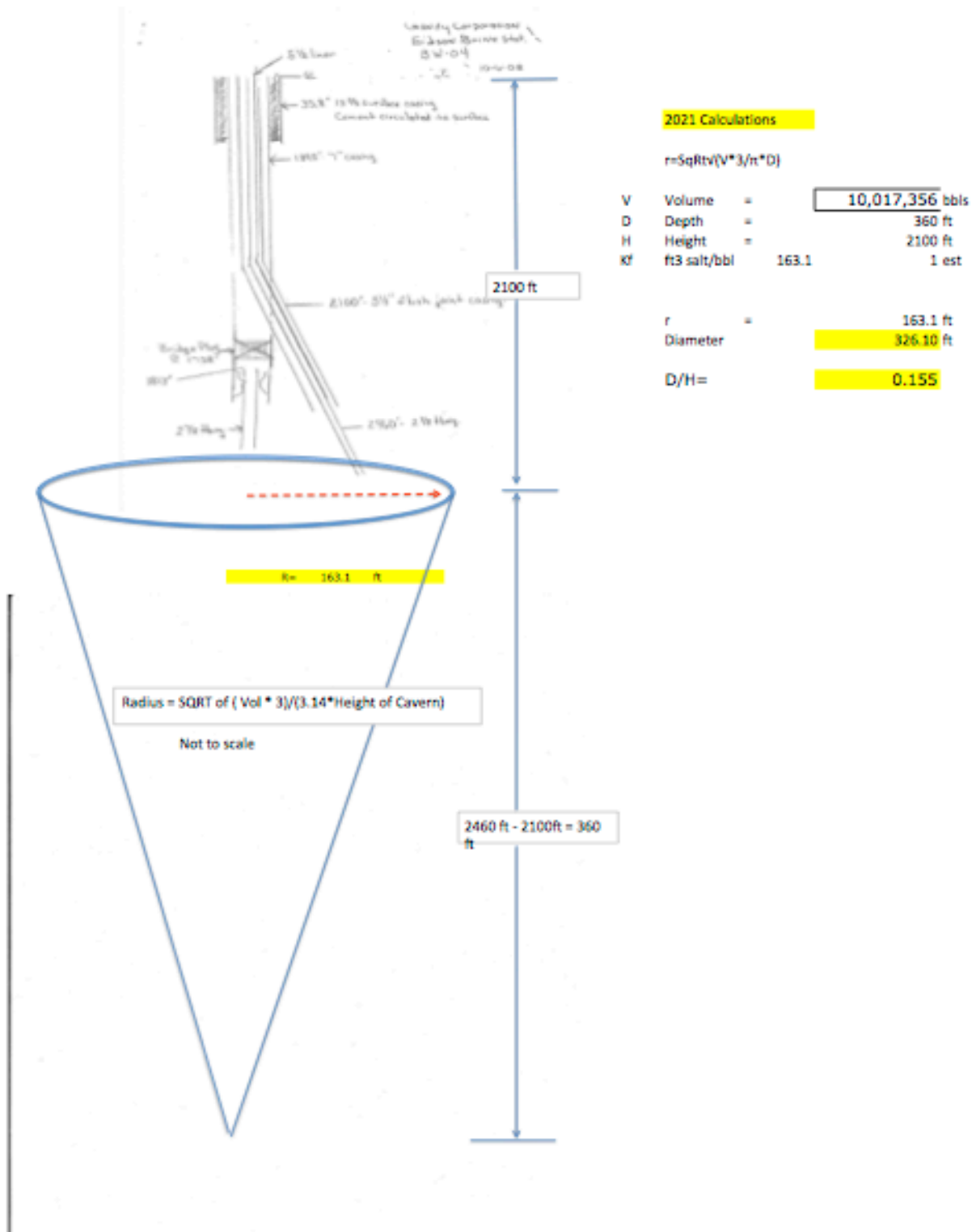
Certification of Pressure Recorder Test:

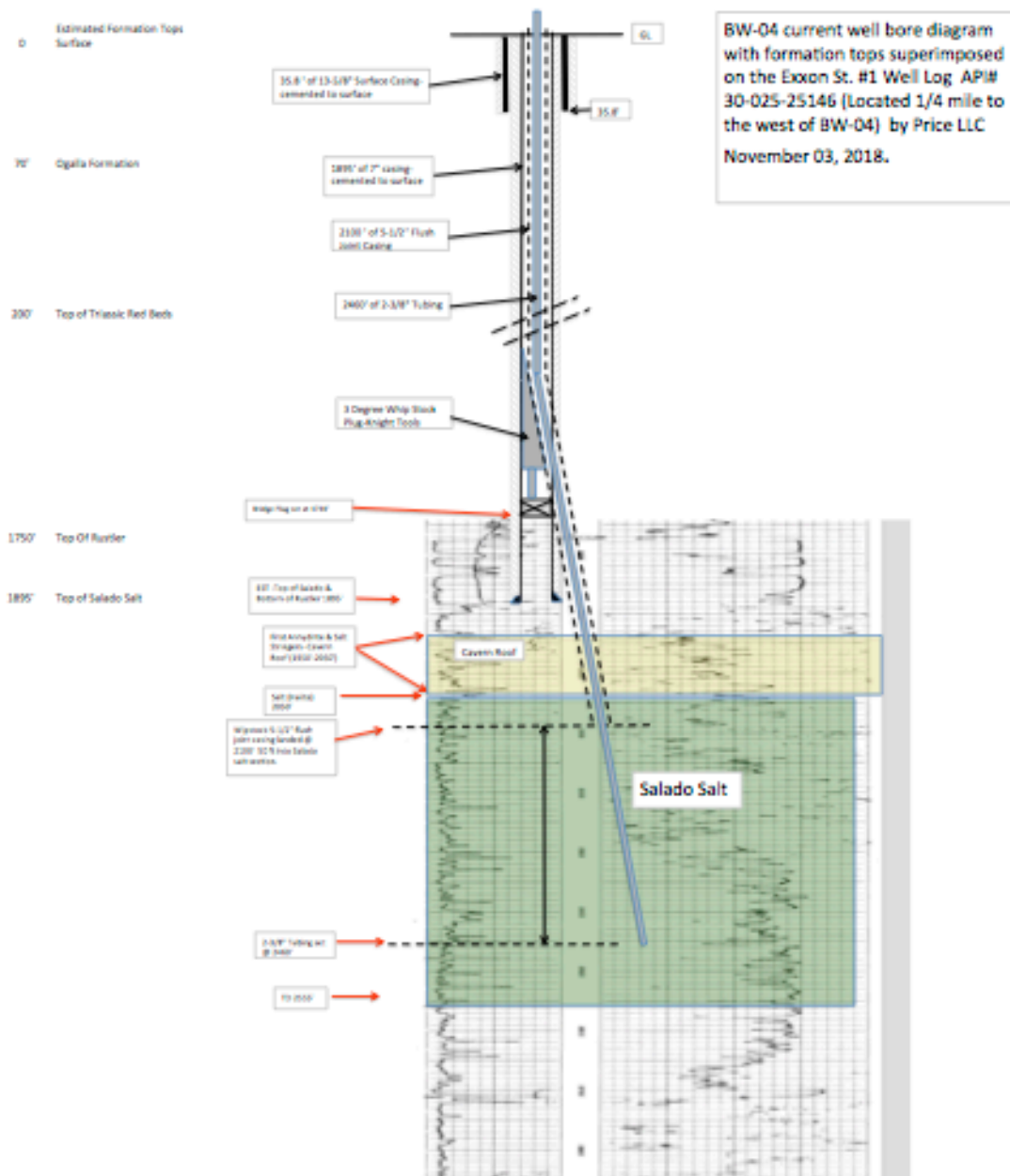
Company:	Gandy
Unit:	Gandy # 5
Model:	
Pressure Rating:	1000#
Serial #:	Gandy # 5

This Pressure Recorder was tested at midrange for accuracy and verified within +5% and -5% for a 1000# pressure element.


Jesse Arenivas, Technician

Released to Imaging: 7/8/2022 1:21:04 PM





2021			
BW-04 Mass Balance		Independent Inputs	
Measured Salt Removed vs Calculated Salt Removed		Formulas	Dependent Variables
Year End Total Production Volume	10,017,356 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 OGD 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	807,699,414 LBS	Dependent Variable	
Ft3 of salt removed	10,096,243 Ft3	Estimated Cavern Size calculated from Production Numbers	
Geo-Physical Worst Case Cone Calculation V= [TR2h / 3			
Radius	Radius	163.1 ft	Dependent Variable
	Height from Log	360 ft	Independent Variable
Volume of Worst Case Cone		10,023,487 Ft3	Calculated using "Worst Case Cone"
	1%	Within 10 % Passes	* Plus 1% = Means Cone Calculation is less than measured salt removed * Neg % = Means Cone Calculation is more than measured salt remove

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

COMMENTS

Action 112843

COMMENTS

Operator: WASSERHUND INC P.O. Box 2140 Lovington, NM 88260	OGRID: 130851
	Action Number: 112843
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

COMMENTS

Created By	Comment	Comment Date
cchavez	Annual Report 2021	7/8/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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Created By	Condition	Condition Date
cchavez	None	7/8/2022