2023 Annual Class III Well Report

Llano Disposal, LLC

BW-35

API – 30-25-30701

Submitted by: Laura Angell, 10/28/24

TABLE OF CONTENTS

Page

Summary of Class III Well Operations

BW35 (Siringo ACS State # 1) was put into operation in mid-2017. After initial circulation and cleanup of the newly re-entered wellbore, the well started producing good, commercial quality brine water of 10# per gallon. Well operation was as expected, with the psi of injected fresh water very close to the calculated pressure needed to force the heavier brine water to the surface. The amount of fresh water injected as compared to the amount of brine water recovered, considering the known use of injected water to fill the void created by the continual solution mining of halite has been as planned. All numbers are reported monthly per OCD requirement and is also noted and used on the brine cavern characterization report. In general, the operation of BW35 has not been difficult, and has done a good job of servicing the requirements of industry in the Lea/Eddy County areas.

Two additional 500-barrel brine storage tanks were added to the tankage/loading facility. See **Appendix E** for a well and loading facility diagram.

A chronological list of C103 forms that Llano Disposal has filed on subject well can be found in **APPENDIX D** at the end of this report.

Monthly Fluid Injection and Brine Production

Federal Fiscal Year 2023

Month	Brine Monthly BBLS	Brine Cumulative BBLS	Fresh Monthly BBLS	Fresh Cumulative BBLS	PSI	Percent Fresh/ Brine	RPD
* Oct	0	0	0	0			
* Nov	0	0	0	0			
* Dec	0	0	0	0			
Jan	18,043	18,043	19,853	19,853	210.0	1.1003	9.55
Feb	21,300	39,343	23,780	43,633	211.0	1.1164	11.00
Mar	19,535	58,878	21,555	65,188	213.0	1.1034	9.83
Apr	22,605	81,483	25,088	90,276	206.0	1.1098	10.41
May	23,058	104,541	25,455	115,731	196.0	1.1040	9.88
Jun	22,585	127,126	25,280	141,011	208.0	1.1193	11.26
Jul	25,685	152,811	28,720	169,731	213.0	1.1182	11.16
Aug	19,791	172,602	21,884	191,615	205.0	1.1058	10.04
Sep	24,538	197,140	27,009	218,624	201.0	1.1007	9.59

	Year	Brine Yearly BBLS	Brine Cumulative BBLS	Fresh Yearly BBLS	Fresh Cumulative BBLS
	2017	56,721	56,721	62,499	62,499
	2018	470,705	527,426	518,805	581,304
	2019	467,241	994,667	514,896	1,096,201
	2020	320,434	1,315,101	352,618	1,448,819
	2021	318,390	1,633,491	351,567	1,800,386
	2022	237,682	1,871,173	267,029	2,067,415
Fiscal year	*** 2023**	197,140	2,068,313	218,624	2,286,039

*** Note – 2023 is the first time using the Federal Fiscal Year calendar. The first three months of the fiscal year were included in the 2022 Annual Report. The 2024 Annual Report will include a full fiscal year.**

Annual Monitor Well Analytical Data Results

An analysis was done on the monitor well each quarter in 2023. The reports can be viewed in **APPENDIX F** at the end of this report. However, the fourth quarter results are listed below:

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 1/8/2024 4:29:56PM

Monitor Well

E401001-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2401006
Total Dissolved Solids	**224**	10.0	1	01/03/24	01/08/24	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: WF			Batch: 2401031
pH @25°C	**7.80**		1	01/04/24 09:23	01/04/24 14:40	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2401037
Specific Gravity	**0.996**		1	01/05/24	01/05/24	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: DT			Batch: 2401016
Chloride	**91.9**	2.00	1	01/03/24	01/03/24	

Injection Pressure Data

Injection pressure at the well (tubing) averages 260/PSI. The brine well casing pressure (brine to battery), averages about 35 PSI. The field operator checks the pressures daily and records them on the daily log.

Pipeline Hydrostatic Test Results

Service piping both to and from BW35 is 3" SDR11 high density poly. These 2 lines are tested accordingly to 160 psi. The feeder line (fresh water) runs due west from the fresh water well to BW35. Testing is accomplished by closing a steel ball valve on the well head, then allowing the freshwater pump to bring pressure up to 160 psi. The line is then isolated by valving installed at each end of the line. Pressure is held static on the line for 1 hour, during which time the entire line is visually inspected. The 3" SDR11 HD poly line leading from BW35 to the tankage facility, is tested in the same manner. A valve in the line is closed at the tankage facility. Then the freshwater line at the wellhead is allowed to pressure to 160 psi. A jumper line between the freshwater line and the brine line has been installed at BW35 well head to accomplish this. After brine line pressure has risen to 160 psi, the entire system is shut down, then the brine line is isolated by closing valving in place at each end of the line. Pressure is held for 1 hour, during which time the line is visually inspected. The freshwater line and the brine line run across land that is under the same ownership as Llano Disposal, LLC. Therefore, driving these lines for inspection during testing, and during normal operations, is frequent and at will. The lines between the storage tanks and the truck loading valves, are all 6" SDR11 high density poly. These lines carry normal head pressure of 0 psi (emptied tanks) to 8.4 psi (full tankage) but are virtually always under positive pressure. These lines are under continual live camera observation and viewed daily both by truckers and by Llano field personnel. All tanks are 16' fiberglass and are manifolded together with said 6" SDR11 HD poly line. Valving is installed on the outlet of each tank so that anyone, or all of the tanks can be closed off if needed. All valving and connections are plastic coated steel, stainless steel, poly, or fiberglass.

Pipeline Visual Inspections for leaks are done at minimum every other day, monitoring lines, joints, tanks, and recording volumes and pressure.

Quarterly Chemical Analysis

A chemical analysis was done each quarter in 2023. The reports can be viewed in **APPENDIX F** at the end of this report.

Mechanical Integrity Test

A MIT was performed on 3/8/21: Llano scheduled, then ran a MIT on BW35 using a calibrated chart recorder with OCD witness (Hobbs OCD, George Bowers). Meter was within meter calibration date requirements (calibrated 8/2/17). The well was tested to regulation psig for the regulation period and exhibited no psig leak-off. See Chart No. 1 in **APPENDIX A**.

Deviations from normal Operations

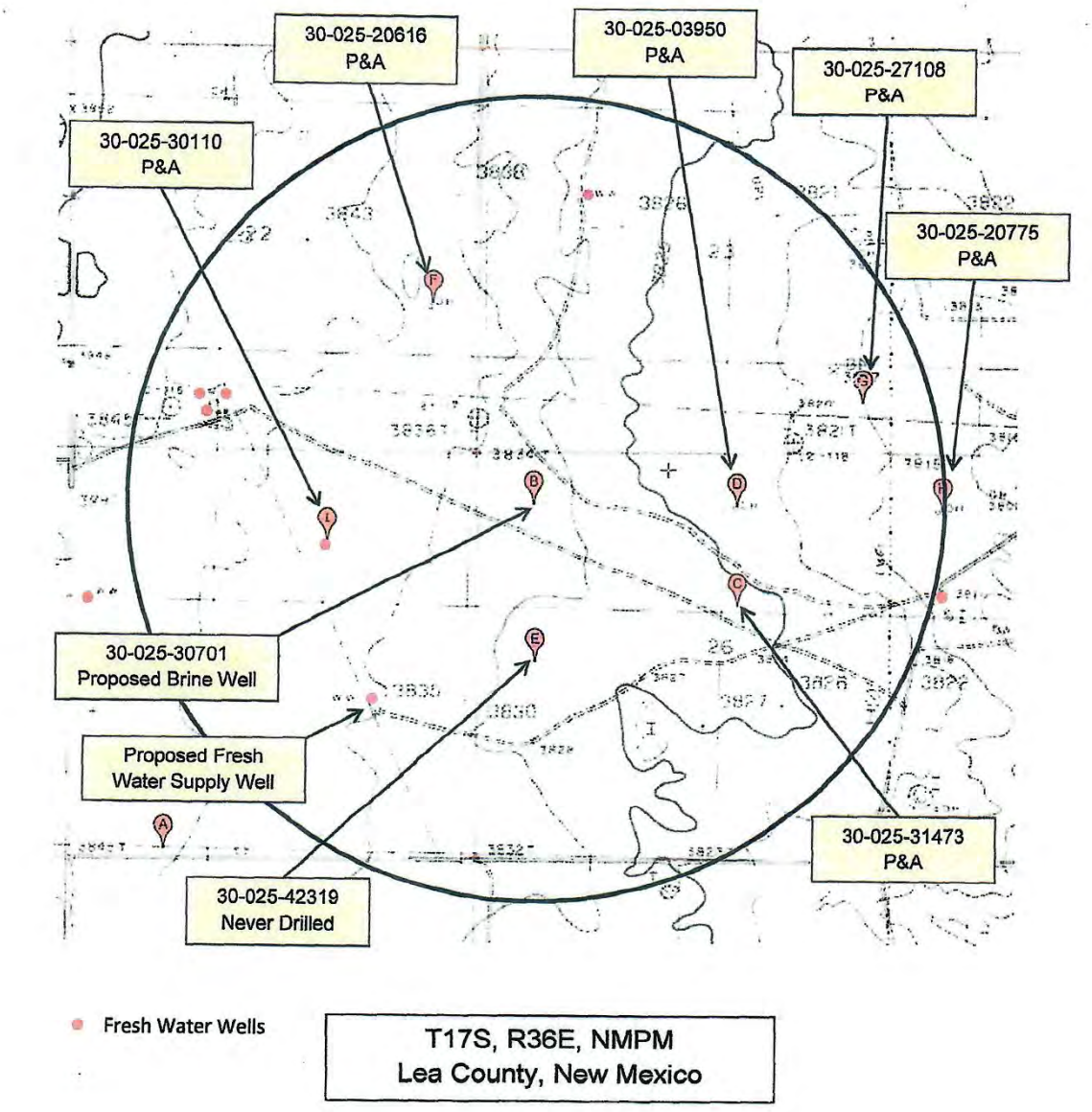
There were no deviations during this period.

Leaks and Spills Corrective Action Reports

There were no leaks, spills, or corrective action during this period.

Area of Review Update Summary

Please see below, the AOR document that was submitted as part of the 2022 application for BW-35. A current, location-by-location review of this brine permit has been completed, and it was found that there has been no oil or gas well development in the area since the original AOR document was created and submitted to NMOCD as part of the 2022 application.



Summary MITs, Surface Subsidence Surveys, Cavern Size & Shape, Cavern Volume and Geometry Measurements with Conclusion(s) and Recommendation(s)

A MIT was performed on 3/8/21: Llano scheduled, then ran a MIT on BW35 using a calibrated chart recorder with OCD witness (Hobbs OCD, George Bowers). Meter was within meter calibration date requirements (calibrated 8/2/17). The well was tested to regulation psig for the regulation period and exhibited no psig leak-off. See Chart No. 1 in **APPENDIX A**.

Please find the Subsidence Report in **APPENDIX C** at the end of this report, that was prepared for us by Asel Surveying of Hobbs, NM. The importance and purpose of the report is to closely monitor any geological shifting, either vertically or horizontally, in the earth surrounding the brine well.

A description of the Cavern Size & Shape, Cavern Volume and Geometry Measurements, is in **APPENDIX B** at the end of this report.

In conclusion, the operational history of BW35 could be described as “good”, meaning that the well has performed very well in producing 10# brine. There are no recommendations currently.

Injected Fluids to Brine Ratio

Total Brine for the fiscal year	197,140
Total Fresh for the fiscal year	218,624
Ratio of Fresh to Brine	**1.1090**

Summary of Major Facility Activities

There were no major facility activities at this well during 2023.

Surface Subsidence Monitoring Plan Data Results

Data results are included in **Appendix C** at the end of this report.

Solution Cavern Characterization Data Results

Please see **APPENDIX B** at the end of this report for a full description.

APPENDIX A

MITs

Received by OCD: 3/8/2021 11:49:07 AM Page 1 of 6

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-30701
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. Salado

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: Sirigo ACS St.
1. Type of Well: Oil Well ☐ Gas Well ☒ Other BSW
8. Well Number 1
2. Name of Operator Llano Disposal, LLC
9. OGRID Number 370661
3. Address of Operator PO Box 250 Lovington NM 88260
10. Pool name or Wildcat BSW (Brine)
4. Well Location
Unit Letter D : 660 feet from the N line and 660 feet from the W line
Section 26 Township 17S Range 36E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3831' MSL

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	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER: MIT			☒

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.

Per earlier C103 notices, we rigged up to repair damaged fiberglass tubing. Accomplished repairs, then Ran a 4hour MIT test, in Coordination w/MR. Frotner (OCD, Hobbs). Please find pressur Chart & Current Wellbore Schematic attached.

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 [signature] TITLE Brine (Mgr) DATE 03-08/2021

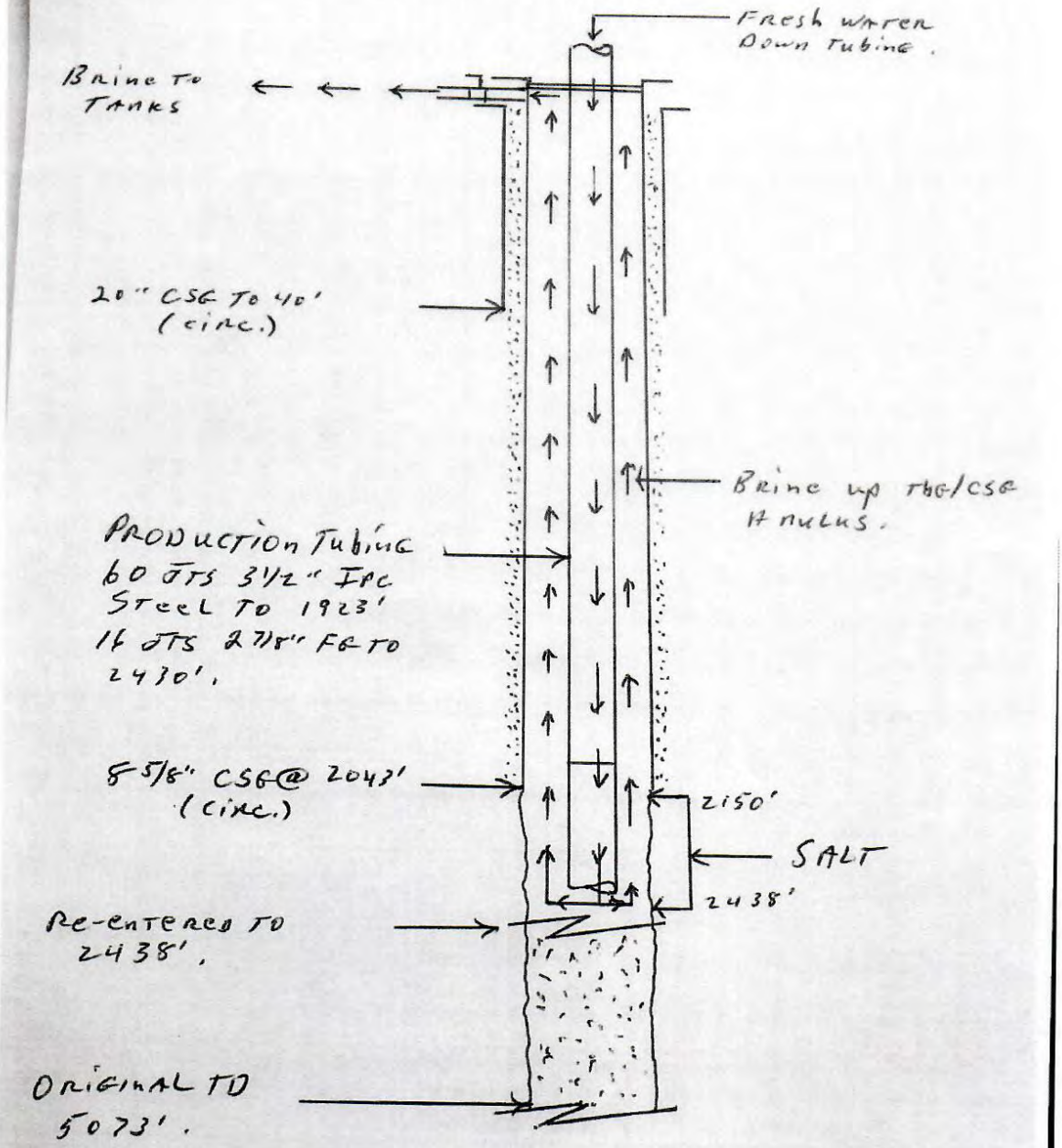
Type or print name Elizabeth Pickerel E-mail address: service.llanobrine@gmail.com PHONE: 575-605-6490

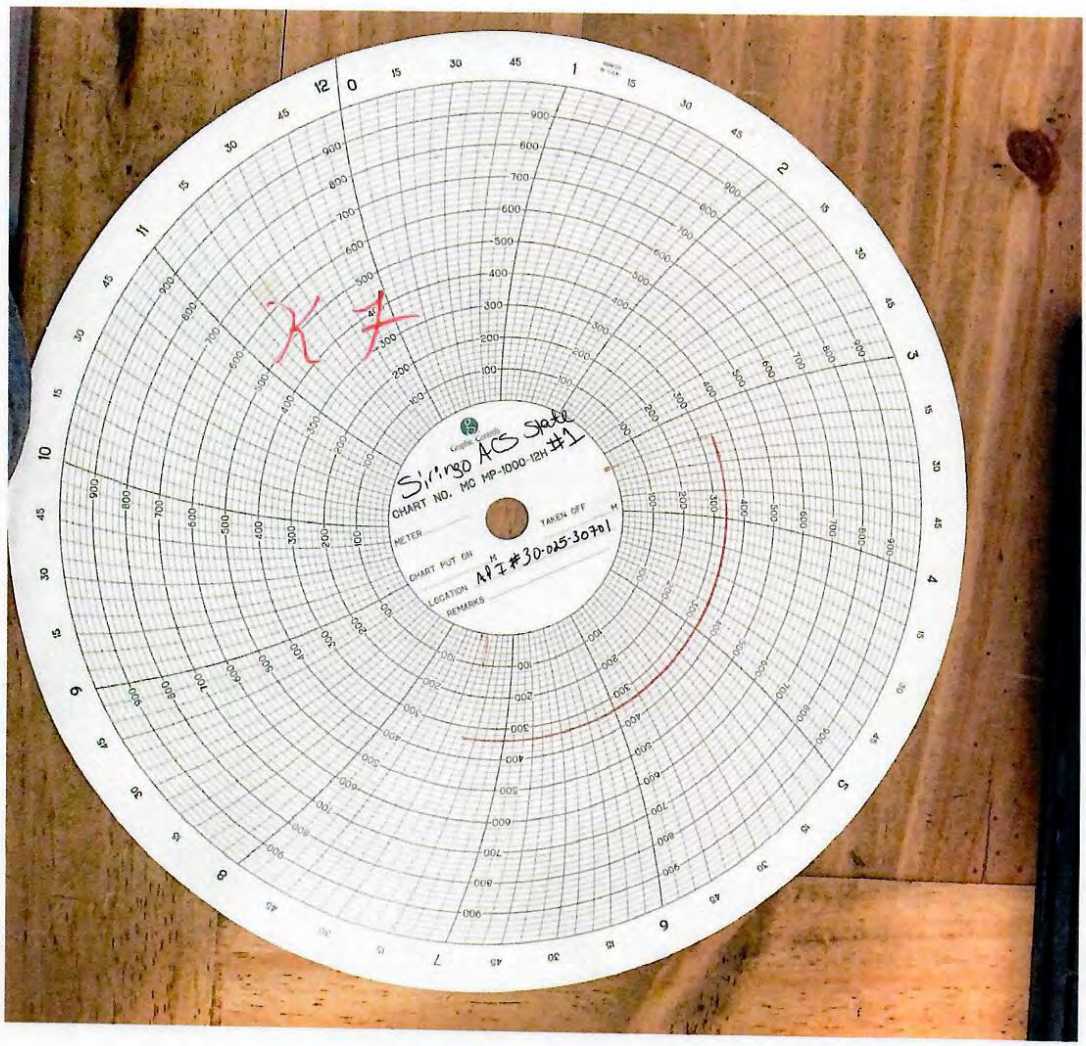
For State Use Only

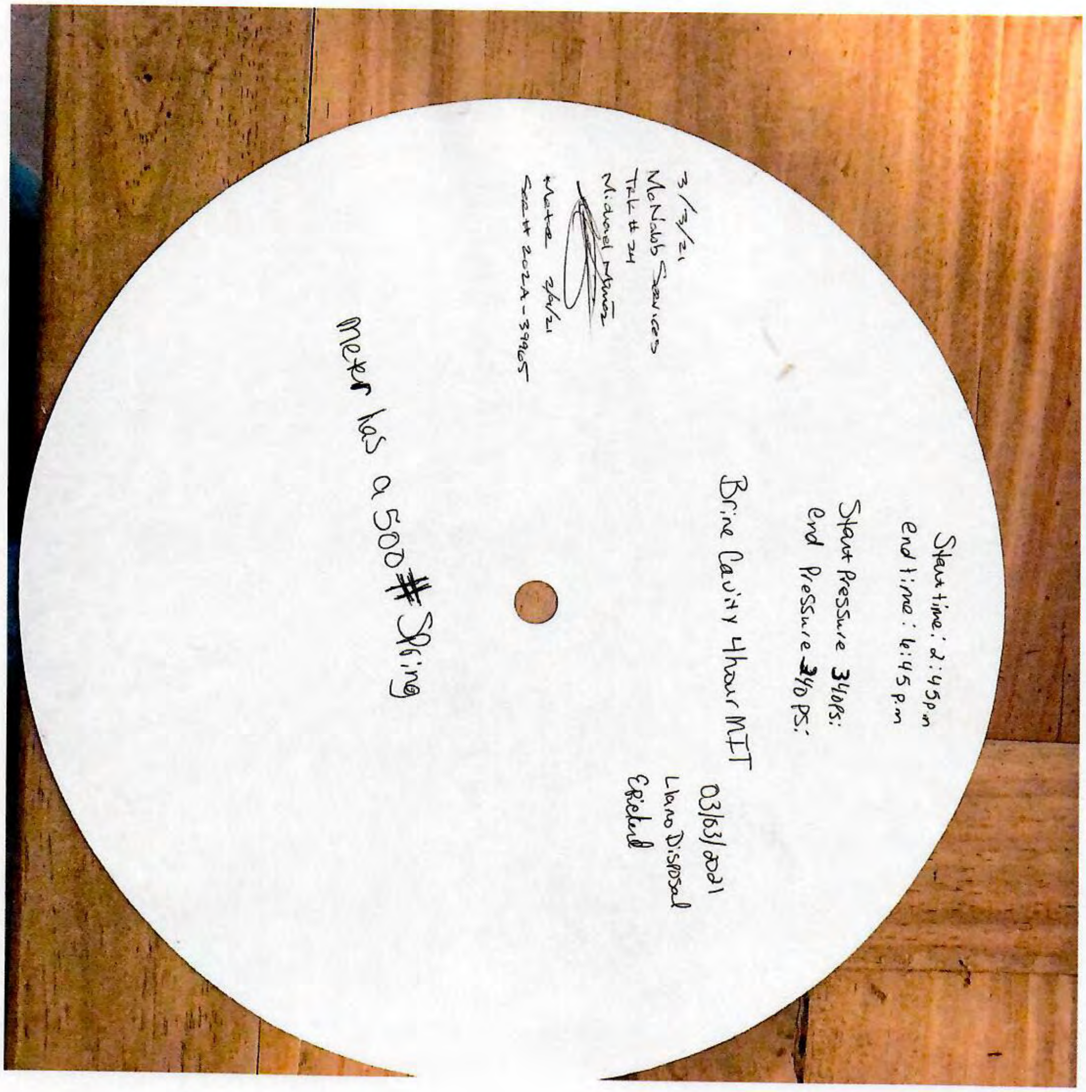
APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 7/16/21
Conditions of Approval (if any):

Released to Imaging: 7/16/2021 2:25:58 PM

LLANO DISPOSAL, LLC
SIARGO ACS STATE #1
ULD-526-T17S-R31E




Sirrgo ACS Skid #1
CHART NO. MC MP-1000-12H
METER
TAKEN OFF
CHART PUT ON
LOCATION API #30-025-30701
REMARKS


3/3/21
McNabb Services
Trk # 24
Start time: 2:45pm
end time: 6:45pm
Start Pressure 340psi
end Pressure 340psi
Brine Cavity 4hour MIT
03/03/2021
Llano Disposal
Meter has a 500# Spring

American Valve & Meter, Inc.

1113 W. BROADWAY

P.O. BOX 166 HOBBS, NM 88240

T0:McNabb **DATE: 2/9/21**

This is to certify that:

I, Justin Harris , Technician for American Valve & Meter Inc. Has checked the calibration of the following instrument.

12"_Pressure recorder **Ser#202A-39965**

at these points.

	Pressure #		Temperature *or Pressure #		
Test	**Found**	**Left**	**Test**	**Found**	**Left**
- 0	-	- 0	-	-	-
- 500	-	- 500	-	-	-
- 700	-	- 700	-	-	-
- 1000	-	- 1000	-	-	-
- 200	-	- 200	-	-	-
- 0	-	- 0			

Remarks:

Signature:

APPENDIX B

Cavern Characterization

Cavern Characterization

By the end of Federal Fiscal Year 2023, 2,286,039 total barrels of fresh water had been injected into the salt strata for the purpose of brine generation (96,013,638 gallons). *(Since this is the first time using the Federal Fiscal Year, this report includes nine months. Oct, Nov and Dec 2022 were included in the 2022 Annual reports.)* Well production history has shown that this well reliably averages 10.0-pound brine water. It therefore follows that each gallon of fresh water (testing 8.34 pounds per gallon) has been dissolving 1.66 pounds of halite. By simple calculation, 156,382,639 pounds of halite and other water solubles have gone into solution since operations began. Halite has a SG of 2.17 (compared to fresh water), so is calculated and known to weigh 137.47 pounds per cubic foot. It follows then that 1,159,399.43 cubic feet of halite have gone into solution since operations began. The amount of fresh water injected (2,286,039 bbls) as compared to the amount of brine produced (2,068,313 bbls) shows that water is being used to fill the cavity as the cavity increases in volume:

Therefore, fresh water injected compared to brine water produced, is 110.526% .

Since it is impossible to know the exact dimensions of the cavity, some assumptions are reasonably made. OCD regulations require that fresh water be injected down a tubing string so that brine may be produced up the tubing/casing anulus. Therefore, brine generation begins at total depth, and by the time water so circulated reaches the anulus, it has become marketable 10# brine. It is logical then, that dissolution will be rapid at first, then tapers off as saturation is achieved. Such action would imply a cone shaped (inverted cone) cavity.

The teaching to calculate the volume of a truncated cone is:

Volume = (1/3) x pi (Rsq + (R x r) + rsq) H

Where :

1) r equals the radius of the small (upper) end cone diameter in feet
2) R equals the radius of the large (lower) end cone diameter in feet
3) Rsq is “R squared”. rsq is “r squared”.
4) H is depth in feet from tubing depth to top of salt (casing shoe).

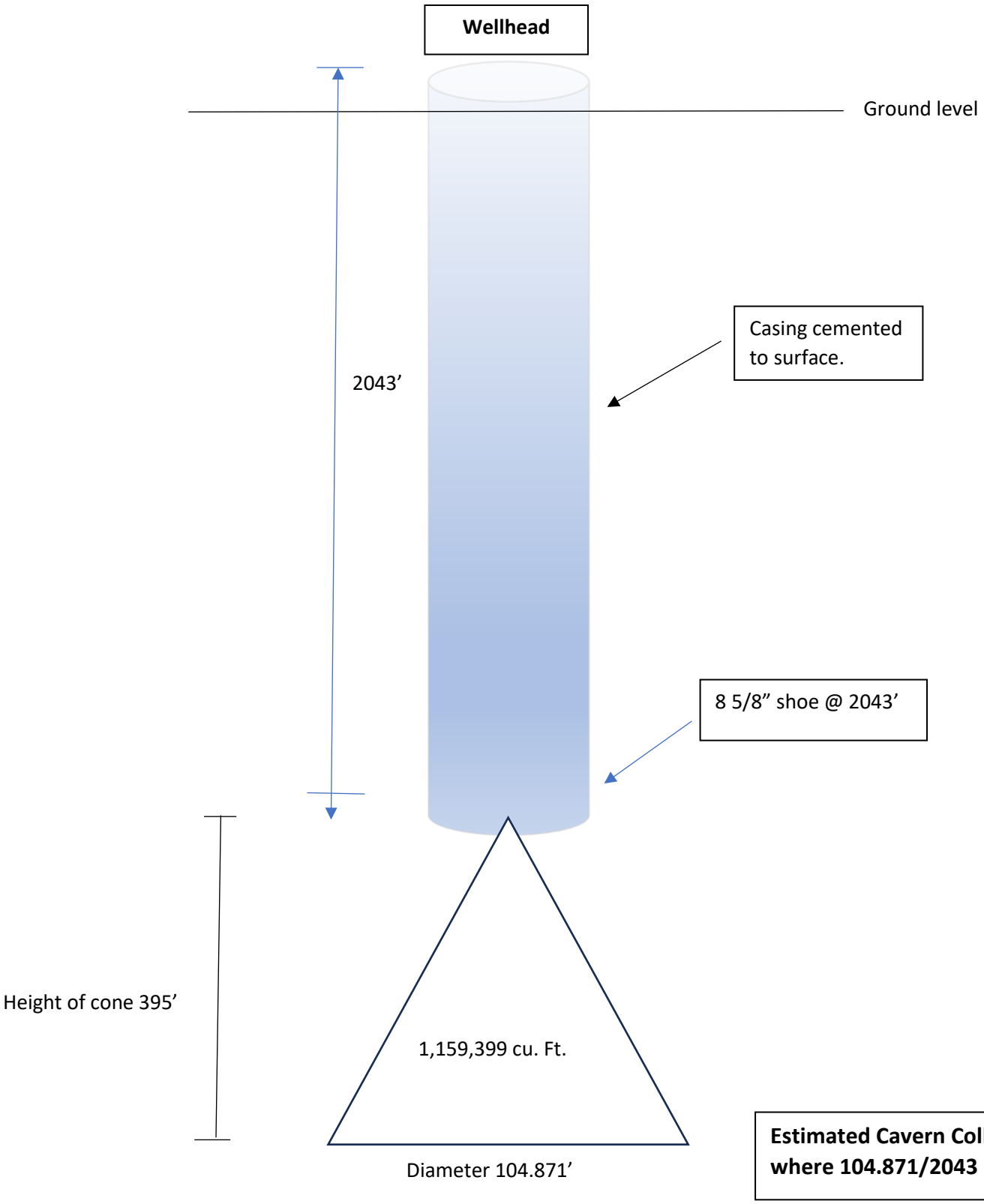
Justification for calculation of salt dissolved by the injection of fresh water into BW35 Salado:

Fresh water used at BW35 for the purpose of brine generation is known to weigh 8.4 lbs. per gallon. Therefore 1.6 lbs. of salt must be taken up by each gallon of fresh water so injected to result in 10 ppg brine water, which is the known industry standard. It follows then that each barrel of brine water (one API barrel = 42 gallons) contains 42 x 1.6 lbs. of salt, or 67.2 lbs. of salt. One cubic foot of salt weighs 137.47 lbs. Continuing, the cubic feet of salt consumed in

one year is equal to the total amount of salt that is calculated to have gone into solution divided by 137.47 lbs.

The attached illustration, with dimensions shown, satisfies the cubic foot volume of solubles (halite) that have been solution mined since operations first began.

Cavern Size, Shape, & Volume Estimate



Estimated Cavern Collapse Ratio = .05 where 104.871/2043 = .051332

APPENDIX C

Subsidence Survey Results

LLANO DISPOSAL LLC.
SIRINGO ACS STATE #1 API #30-025-30701

On March 20, 2023 a field survey was conducted of the Llano Disposal LLC – Siringo ACS State #1 (API #30-025-30701) and four subsidence monuments located in Unit letter D, Section 26, Township 17 South, Range 36 East, N.M.P.M., Lea County, New Mexico. Located approximately 6.5 miles East of Maljamar NM.

VERTICAL ELEVATION TABLE

Survey Monument ID	Original Survey EL (Feet) 01/31/2022*	EL (Feet) 03/20/2023	EL (Feet)	EL (Feet)	EL (Feet)	EL (Feet)
1	3828.30*	3828.24				
2	3827.30*	3827.20				
3	3826.93*	3826.85				
4	3830.01*	3829.96				
Well Flange	–	3828.36				
Bench Mark	3813.31*	3813.31				
Control Point	–	3827.42				

* – Data from Pettigrew & Associates.

Difference in elevations attributed to different GPS equipment used. Asel Surveying versus Pettigrew & Associates.

HORIZONTAL LOCATIONS

Monument ID	Northing	Easting
1	659971.74	849136.55
2	661265.11	848987.55
3	660370.60	850232.37
4	660441.60	848434.52
Well Head	660367.21	849102.07
"	N33°13'21.03"	W103°18'55.69"

TERRY J ASEL NEW MEXICO 15079 REGISTERED PROFESSIONAL LAND SURVEYOR

Bearings and Coordinates conform to the New Mexico State Plane Coordinate System, New Mexico East Zone, NAD83, as derived from static GPS data sent to the National Geodetic Survey for OPUS solution processing.
Basis of Elevations: U.S.C. & G.S. Bench Mark CV0295
Published Elev. = 3813.31

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 3/20/2023

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

LLANO DISPOSAL LLC.

SIRINGO ACS STATE #1 LOCATED IN SECTION 26, TOWNSHIP 17 SOUTH, RANGE 36 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 03/20/23	Sheet 1 of 1 Sheets	
W.O. Number: 230317SUB	Drawn By: KA	Rev:
Date: 03/22/23	230317SUB	Scale: 1"=1000'

Monument Survey Table – BW-35

Monument ID-1, Horizontal Locations: Northing - 659971.74, Eastling - 849136.55

Survey Date	Elevation	+/- ft.	
4/10/2017	3828.32		*
2/10/2022	3828.30	0.02	*
3/20/2023	3828.24	0.06	

Monument ID-2, Horizontal Locations: Northing - 661265.11, Eastling - 848987.55

Survey Date	Elevation	+/- ft.	
4/10/2017	3827.32		*
2/10/2022	3827.30	0.02	*
3/20/2023	3827.20	0.10	

Monument ID-3, Horizontal Locations: Northing - 660370.60, Eastling - 8850232.37

Survey Date	Elevation	+/- ft.	
4/10/2017	3826.91		*
2/10/2022	3826.93	-0.02	*
3/20/2023	3826.85	0.08	

Monument ID-4, Horizontal Locations: Northing - 660441.60, Eastling - 848434.52

Survey Date	Elevation	+/- ft.	
4/10/2017	3830.03		*
2/10/2022	3830.01	0.02	*
3/20/2023	3829.96	0.05	

Wellhead, Horizontal Locations: Northing - 660367.21, Eastling - 849102.07

Survey Date	Elevation	+/- ft.	
4/10/2017	3827.87		*
2/10/2022	3827.74	0.13	*
3/20/2023	3828.36	-0.62	

Benchmark, Horizontal Locations: Northing - 662239.25, Eastling - 852989.68

Survey Date	Elevation	+/- ft.	
4/10/2017	3813.31		*
2/10/2022	3815.51	-2.20	*
3/20/2023	3813.31	2.20	

*Elevations for the Wellhead and subsidence monuments were determined by Asel Surveying LLC. using Geodetic Position System (Topcon Hyper Plus -Base and Rover) RTK measurements off the United States Coastal and Geodetic Survey standard Benchmark NGS-CV029 with a published elevation of 3813.31. Differences in elevations are attributed to the difference in GPS equipment and procedures used. Asel Surveying LLC. Versus Pettigrew and Associates PA.

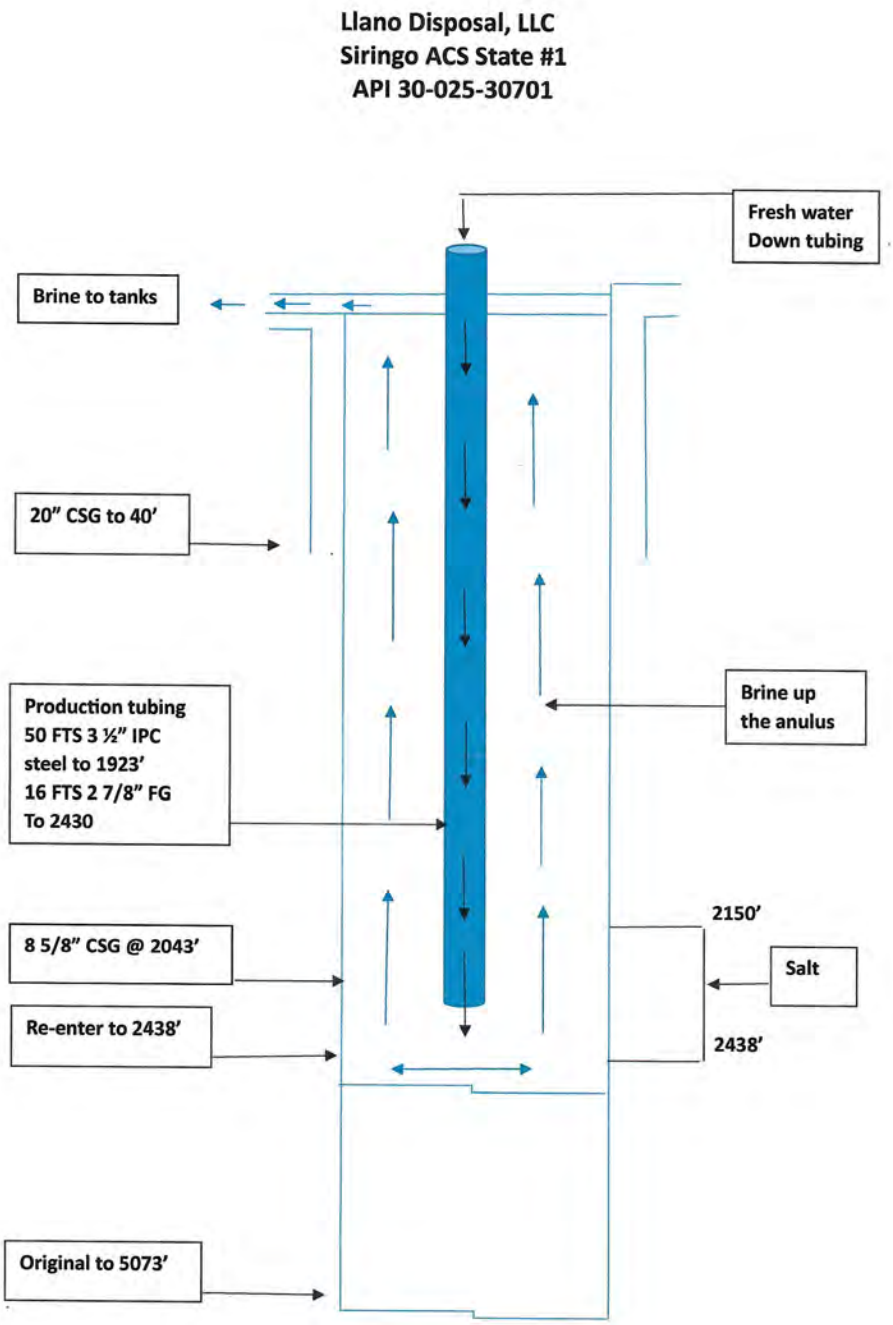
APPENDIX D

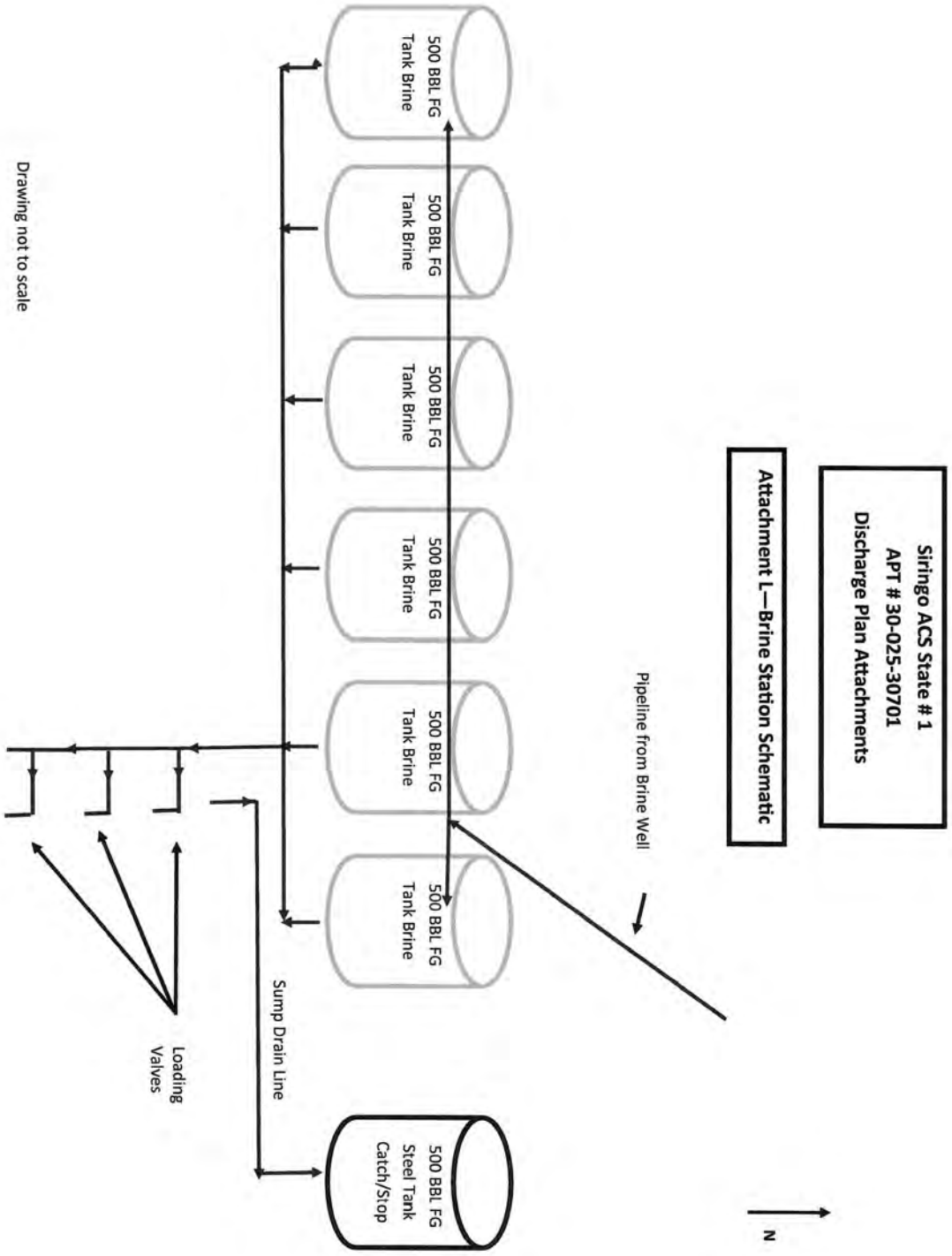
Sundries

There were no sundries in 2023.

APPENDIX E

Well Diagrams


Llano Disposal, LLC
Siringo ACS State #1
API 30-025-30701
Fresh water
Down tubing
Brine to tanks
20" CSG to 40'
Production tubing
50 FTS 3 ½" IPC
steel to 1923'
16 FTS 2 7/8" FG
To 2430
Brine up
the anulus
2150'
Salt
2438'
8 5/8" CSG @ 2043'
Re-enter to 2438'
Original to 5073'


Siringo ACS State # 1
APT # 30-025-30701
Discharge Plan Attachments
Attachment L—Brine Station Schematic
Drawing not to scale
500 BBL FG Tank Brine
500 BBL FG Tank Brine
500 BBL FG Tank Brine
500 BBL FG Tank Brine
500 BBL FG Tank Brine
500 BBL FG Tank Brine
Pipeline from Brine Well
Sump Drain Line
Loading Valves
500 BBL FG Steel Tank Catch/Stop
N

APPENDIX F

Chemical Analysis

Report to:

Elizabeth Pickerel

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Llano Disposal LLC

Project Name:	U Bar Brine Station
Work Order:	E303131
Job Number:	22117-0001
Received:	3/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/7/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Page 1 of 14

Date Reported: 4/7/23

Elizabeth Pickerel
PO Box 250
Lovington, NM 88260

Project Name: U Bar Brine Station
Workorder: E303131
Date Received: 3/30/2023 7:00:00AM

Elizabeth Pickerel,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/30/2023 7:00:00AM, under the Project Name: U Bar Brine Station.

The analytical test results summarized in this report with the Project Name: U Bar Brine Station apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

Walter Hinchman
Laboratory Director
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Field Offices:

Southern New Mexico Area
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Technical Representative/Client Services
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Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 04/07/23 11:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Brine Well	E303131-01A	Aqueous	03/29/23	03/30/23	Poly 500mL
Fresh Well	E303131-02A	Aqueous	03/29/23	03/30/23	Poly 500mL
Monitor Well	E303131-03A	Aqueous	03/29/23	03/30/23	Poly 500mL

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 4/7/2023 11:28:58AM

Brine Well

E303131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2313044
Total Dissolved Solids	**310000**	500	1	03/30/23	04/03/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2313096
pH @25°C	**7.08**		1	03/31/23 11:37	03/31/23 11:51	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2314002
Specific Gravity	**1.191**		1	04/03/23	04/03/23	
Total Metals by EPA 6010C	mg/L	mg/L	Analyst: RKS			Batch: 2314015
Sodium	**130000**	2000	1000	04/04/23	04/06/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2313097
Chloride	**654000**	4000	2000	03/31/23	04/04/23	

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Sample Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	4/7/2023 11:28:58AM

Fresh Well

E303131-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2313044
Total Dissolved Solids	**465**	10.0	1	03/30/23	04/03/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2313096
pH @25°C	**7.59**		1	03/31/23 11:37	03/31/23 11:51	H5
Wet Chemistry by SM2710F	N/A	N/A	Analyst: KH			Batch: 2314002
Specific Gravity	**0.987**		1	04/03/23	04/03/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2313097
Chloride	**89.4**	2.00	1	03/31/23	04/03/23	

Page 6 of 14

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Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 4/7/2023 11:28:58AM

Monitor Well

E303131-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2313044
Total Dissolved Solids	**467**	10.0	1	03/30/23	04/03/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2313096
pH @25°C	**7.72**		1	03/31/23 11:37	03/31/23 11:51	H5
Wet Chemistry by SM2710F	N/A	N/A	Analyst: KH			Batch: 2314002
Specific Gravity	**0.989**		1	04/03/23	04/03/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2313097
Chloride	**92.3**	2.00	1	03/31/23	04/03/23	

Page 7 of 14

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QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	4/7/2023 11:28:58AM

Wet Chem/Gravimetric by SM2540C

Analyst: KF

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2313044-BLK1)									Prepared: 03/30/23 Analyzed: 04/03/23
Total Dissolved Solids	ND	10.0							
LCS (2313044-BS1)									Prepared: 03/30/23 Analyzed: 04/03/23
Total Dissolved Solids	97.0	10.0	100		97.0	55-134			
Duplicate (2313044-DUP1)				**Source: E303107-01**					Prepared: 03/30/23 Analyzed: 04/03/23
Total Dissolved Solids	2930	10.0		2940			0.341	5	

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QC Summary Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 4/7/2023 11:28:58AM

Wet Chemistry by 9040C/4500H+B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	
LCS (2313096-BS1)							Prepared: 03/31/23 Analyzed: 03/31/23		
pH	7.97		8.00		99.8	98.75-101.25			
Duplicate (2313096-DUP1)				**Source: E303129-01**			Prepared: 03/31/23 Analyzed: 03/31/23		
pH	6.79			6.76			0.443	20	

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QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	4/7/2023 11:28:58AM

Total Metals by EPA 6010C

Analyst: RKS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2314015-BLK1)									Prepared: 04/04/23 Analyzed: 04/06/23
Sodium	ND	2.00							
LCS (2314015-BS1)									Prepared: 04/04/23 Analyzed: 04/06/23
Sodium	20.7	2.00	20.0		103	80-120			
Matrix Spike (2314015-MS1)				**Source: E303161-01**					Prepared: 04/04/23 Analyzed: 04/06/23
Sodium	29.8	2.00	20.0	9.44	102	75-125			
Matrix Spike Dup (2314015-MSD1)				**Source: E303161-01**					Prepared: 04/04/23 Analyzed: 04/06/23
Sodium	33.2	2.00	20.0	9.44	119	75-125	10.7	20	

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QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	4/7/2023 11:28:58AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2313097-BLK1)									Prepared: 03/31/23 Analyzed: 04/03/23
Chloride	ND	2.00							
LCS (2313097-BS1)									Prepared: 03/31/23 Analyzed: 04/03/23
Chloride	26.1	2.00	25.0		105	90-110			
LCS Dup (2313097-BSD1)									Prepared: 03/31/23 Analyzed: 04/03/23
Chloride	25.6	2.00	25.0		102	90-110	2.25	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	04/07/23 11:28

H5	pH is specified to be performed in the field within 15 minutes of sampling. The sample analysis was performed as quickly as possible.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client: Llano Disposal LLC	Bill To
Project: U Bar Brine Station	Attention: Llano Disposal LLC
Project Manager: Elizabeth Pickerel	Address: PO Box 250
Address: PO Box 250	City, State, Zip Lovington NM 88260
City, State, Zip Lovington NM 88260	Phone: 575-605-6490
Phone: 575-605-6490	Email: service.llanobrine@gmail.com
Email: service.llanobrine@gmail.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E30313I	22117-0001				x		
							RCRA
						State	
						NM CO UT AZ TX	

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Sodium	TDS, Spec. Gravity	BGDOC NM	Chlorides, pH in Water	TX	GDOC	Remarks
6:30	3/29/23	A	1	Brine Well	1						x	x		x			
6:34	3/29/23	A	1	Fresh Well	2							x		x			
6:36	3/29/23	A	1	Monitor Well	3							x		x			

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Elizabeth Pickerel

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 oC on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
E Pickerel	3/29	11:50	Michelle Gaylor	3-29-23	1150
Michelle Gaylor	3-29-23	1715	Florencia Lei	3-29-23	1730
Florencia Lei	3-29-23	2315	Dani Burns	03/30/23	7:00

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp oC 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 13 of 14

Envirotech Analytical Laboratory

Printed: 3/30/2023 10:48:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Llano Disposal LLC	Date Received:	03/30/23 07:00	Work Order ID:	E303131
Phone:	575-605-6490	Date Logged In:	03/29/23 15:37	Logged In By:	Caitlin Christian
Email:	service.llanobrine@gmail.com	Due Date:	04/05/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Page 14 of 14

Report to:

Elizabeth Pickerel

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Llano Disposal LLC

Project Name: U Bar Brine Station

Work Order: E306219

Job Number: 22117-0001

Received: 6/29/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/7/23

Page 1 of 7

Sample Summary

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 07/07/23 14:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Brine Well	E306219-01A	Aqueous	06/28/23	06/29/23	Poly 500mL
Fresh Well	E306219-02A	Aqueous	06/28/23	06/29/23	Poly 500mL
Monitor Well	E306219-03A	Aqueous	06/28/23	06/29/23	Poly 500mL

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 7/7/2023 2:15:06PM

Brine Well

E306219-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2326065
Total Dissolved Solids	**321000**	200	1	06/29/23	06/29/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2326067
pH @25°C	**7.06**		1	06/29/23 10:39	06/29/23 14:00	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2327022
Specific Gravity	**1.208**		1	07/06/23	07/06/23	
Total Metals by EPA 6010C	mg/L	mg/L	Analyst: RKS			Batch: 2327011
Sodium	**133000**	2000	1000	07/05/23	07/06/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: BA			Batch: 2326045
Chloride	**194000**	4000	2000	06/29/23	06/29/23	

envirotech Inc.

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 7/7/2023 2:15:06PM

Fresh Well

E306219-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2326065
Total Dissolved Solids	**539**	10.0	1	06/29/23	06/29/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2326067
pH @25°C	**7.81**		1	06/29/23 10:39	06/29/23 14:00	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2327022
Specific Gravity	**1.006**		1	07/06/23	07/06/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: BA			Batch: 2326045
Chloride	**89.7**	2.00	1	06/29/23	06/29/23	

Page 4 of 7

envirotech Inc.

Project Information

Chain of Custody

Page 1 of 1

Client: Llano Disposal LLC	Bill To
U Bar Brine Station	Attention: Llano Disposal LLC
Project Manager: Elizabeth Pickerel	Address: PO Box 250
Address: PO Box 250	City, State, Zip Lovington NM 88260
City, State, Zip Lovington NM 88260	Phone: 575-605-6490
Phone: 575-605-6490	Email: service.llanobrine@gmail.com
Email: service.llanobrine@gmail.com	
Report due by:	

Lab Use Only: Lab WO# E306219 Job Number 22117-0001

TAT: 1D 2D 3D Standard: x

EPA Program: CWA SDWA RCRA

State: NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Sodium	TDS, Spec. Gravity	BGDOC NM	Chlorides, pH in Water	TX	GDOC	Remarks
6:43	6/28/23	A	1	Brine Well	1						x	x		x			
6:46	6/28/23	A	1	Fresh Well	2							x		x			
6:47	6/28/23	A	1	Monitor Well	3							x		x			

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Elizabeth Pickerel

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 oC on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
EPickerel	6/28/2023	1:00 pm	Michelle Gray	6.28.23	1300
Michelle Gonzales	6.28.23	1700		6-28-23	1730
	6-28-23	2345	Cantu Mar	6/29/23	8:00

Lab Use Only: Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp oC 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 6 of 7

Envirotech Analytical Laboratory

Printed: 6/29/2023 12:07:35PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Llano Disposal LLC	Date Received:	06/29/23 08:00	Work Order ID:	E306219
Phone:	575-605-6490	Date Logged In:	06/29/23 08:44	Logged In By:	Caitlin Mars
Email:	service.llanobrinc@gmail.com	Due Date:	07/07/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes
2. Does the number of samples per sampling site location match the COC	Yes
3. Were samples dropped off by client or carrier?	Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.	Yes

Carrier: Courier

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No
29. Was a subcontract laboratory specified by the client and if so who?	NA

Subcontract Lab: na

Comments/Resolution

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Page 7 of 7

Report to:

Elizabeth Pickerel

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Llano Disposal LLC

Project Name: U Bar Brine Station

Work Order: E310022

Job Number: 22117-0001

Received: 10/4/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/11/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Page 1 of 14

Date Reported: 10/11/23

Elizabeth Pickerel
PO Box 250
Lovington, NM 88260

Project Name: U Bar Brine Station
Workorder: E310022
Date Received: 10/4/2023 8:20:00AM

Elizabeth Pickerel,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2023 8:20:00AM, under the Project Name: U Bar Brine Station.

The analytical test results summarized in this report with the Project Name: U Bar Brine Station apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

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Table of Contents

Page 3 of 14

Sample Summary

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	Reported: 10/11/23 16:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Brine Well	E310022-01A	Aqueous	10/03/23	10/04/23	Poly 500mL
Fresh Well	E310022-02A	Aqueous	10/03/23	10/04/23	Poly 500mL
Monitor Well	E310022-03A	Aqueous	10/03/23	10/04/23	Poly 500mL

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 10/11/2023 4:52:32PM

Brine Well

E310022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2340083
Total Dissolved Solids	**318000**	50.0	1	10/06/23	10/06/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2340080
pH @25°C	**7.01**		1	10/05/23 09:47	10/05/23 16:54	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2340077
Specific Gravity	**1.192**		1	10/05/23	10/05/23	
Total Metals by EPA 6010C	mg/L	mg/L	Analyst: JL			Batch: 2341012
Sodium	**96400**	2000	1000	10/09/23	10/10/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: IY			Batch: 2341045
Chloride	**256000**	4000	2000	10/10/23	10/11/23	

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Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 10/11/2023 4:52:32PM

Fresh Well

E310022-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2340083
Total Dissolved Solids	**455**	10.0	1	10/06/23	10/06/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2340080
pH @25°C	**8.01**		1	10/05/23 09:47	10/05/23 16:54	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2340077
Specific Gravity	**0.998**		1	10/05/23	10/05/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: IY			Batch: 2341045
Chloride	**87.6**	2.00	1	10/10/23	10/10/23	

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Sample Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	10/11/2023 4:52:32PM

Monitor Well

E310022-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2340083
Total Dissolved Solids	**487**	10.0	1	10/06/23	10/06/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2340080
pH @25°C	**7.96**		1	10/05/23 09:47	10/05/23 16:54	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2340077
Specific Gravity	**1.000**		1	10/05/23	10/05/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: IY			Batch: 2341045
Chloride	**87.5**	2.00	1	10/10/23	10/10/23	

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QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	10/11/2023 4:52:32PM

Wet Chem/Gravimetric by SM2540C

Analyst: KF

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2340083-BLK1)									Prepared: 10/06/23 Analyzed: 10/06/23
Total Dissolved Solids	ND	10.0							
LCS (2340083-BS1)									Prepared: 10/06/23 Analyzed: 10/06/23
Total Dissolved Solids	117	10.0	100		117	55-134			
Duplicate (2340083-DUP1)				**Source: E310023-01**					Prepared: 10/06/23 Analyzed: 10/06/23
Total Dissolved Solids	414	10.0		425			2.62	5	

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QC Summary Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 10/11/2023 4:52:32PM

Wet Chemistry by 9040C/4500H+B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	
LCS (2340080-BS1)							Prepared: 10/05/23 Analyzed: 10/05/23		
pH	7.99		8.00		99.9	98.75-101.25			
Duplicate (2340080-DUP1)				**Source: E310020-01**			Prepared: 10/05/23 Analyzed: 10/05/23		
pH	6.85			6.80			0.733	20	

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QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	10/11/2023 4:52:32PM

Total Metals by EPA 6010C

Analyst: JL

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2341012-BLK1)									Prepared: 10/09/23 Analyzed: 10/09/23
Sodium	ND	2.00							
LCS (2341012-BS1)									Prepared: 10/09/23 Analyzed: 10/09/23
Sodium	17.5	2.00	20.0		87.7	80-120			
Matrix Spike (2341012-MS1)				**Source: E310013-04**					Prepared: 10/09/23 Analyzed: 10/09/23
Sodium	1580	2.00	20.0	1590	NR	75-125			M4
Matrix Spike Dup (2341012-MSD1)				**Source: E310013-04**					Prepared: 10/09/23 Analyzed: 10/09/23
Sodium	1560	2.00	20.0	1590	NR	75-125	0.828	20	M4

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QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	10/11/2023 4:52:32PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2341045-BLK1)									Prepared: 10/10/23 Analyzed: 10/10/23
Chloride	ND	2.00							
LCS (2341045-BS1)									Prepared: 10/10/23 Analyzed: 10/10/23
Chloride	24.7	2.00	25.0		98.7	90-110			
LCS Dup (2341045-BSD1)									Prepared: 10/10/23 Analyzed: 10/10/23
Chloride	24.7	2.00	25.0		98.8	90-110	0.0701	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

envirotech Inc.

Definitions and Notes

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	10/11/23 16:52

H5	pH is specified to be performed in the field within 15 minutes of sampling. The sample analysis was performed as quickly as possible.
M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client: Llano Disposal LLC
U Bar Brine Station
Project Manager: Elizabeth Pickerel
Address: PO Box 250
City, State, Zip Lovington NM 88260
Phone: 575-605-6490
Email: service.llanobrine@gmail.com
Report due by:

Bill To
Attention: Llano Disposal LLC
Address: PO Box 250
City, State, Zip Lovington NM 88260
Phone: 575-605-6490
Email: service.llanobrine@gmail.com

Lab Use Only
Lab WO# E310022
Job Number 22117-0001

TAT: 1D | 2D | 3D | Standard (x)

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | Sodium | TDS, Spec. Gravity | BGDOC NM | Chlorides, pH in Water | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
9:30	10/3/23	A	1	Brine Well	1	Sodium x, TDS x, Chlorides x
9:15	10/3/23	A	1	Fresh Well	2	TDS x, Chlorides x
9:16	10/3/23	A	1	Monitor Well	3	TDS x, Chlorides x

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Elizabeth Pickerel

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 oC on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
EPickerel	10/3/2023	1:02	Michelle Gray	10.3.23	1302
Michelle Gray	10.3.23	1700	Andrew McGee	10.3.23	1700
Andrew McGee	10.3.23	2330	Cait Mar	10.4.23	8:20

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp oC 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 13 of 14

Envirotech Analytical Laboratory

Printed: 10/4/2023 10:26:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Llano Disposal LLC	Date Received:	10/04/23 08:20	Work Order ID:	E310022
Phone:	575-605-6490	Date Logged In:	10/04/23 10:22	Logged In By:	Caitlin Mars
Email:	service.llanobrine@gmail.com	Due Date:	10/10/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Page 14 of 14

Report to:

Elizabeth Pickerel

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

NELAP ACCREDITED TNI LABORATORY

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Practical Solutions for a Better Tomorrow

Analytical Report

Llano Disposal LLC

Project Name: U Bar Brine Station

Work Order: E401001

Job Number: 22117-0001

Received: 1/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/8/24

Page 1 of 14

Date Reported: 1/8/24

Elizabeth Pickerel
PO Box 250
Lovington, NM 88260

Project Name: U Bar Brine Station
Workorder: E401001
Date Received: 1/2/2024 8:00:00AM

Elizabeth Pickerel,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/2/2024 8:00:00AM, under the Project Name: U Bar Brine Station.

The analytical test results summarized in this report with the Project Name: U Bar Brine Station apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

Walter Hinchman
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Table of Contents

Sample Summary

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 01/08/24 16:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Brine Well	E401001-01A	Aqueous	12/29/23	01/02/24	Poly 500mL
Fresh Well	E401001-02A	Aqueous	12/29/23	01/02/24	Poly 500mL
Monitor Well	E401001-03A	Aqueous	12/29/23	01/02/24	Poly 500mL

Sample Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	1/8/2024 4:29:56PM

Brine Well

E401001-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2401006
Total Dissolved Solids	**313000**	100	1	01/03/24	01/08/24	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: WF			Batch: 2401031
pH @25°C	**6.93**		1	01/04/24 09:23	01/04/24 14:40	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2401037
Specific Gravity	**1.199**		1	01/05/24	01/05/24	
Total Metals by EPA 6010C	mg/L	mg/L	Analyst: RKS			Batch: 2401003
Sodium	**133000**	2000	1000	01/04/24	01/08/24	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: DT			Batch: 2401016
Chloride	**228000**	2000	1000	01/03/24	01/03/24	

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 1/8/2024 4:29:56PM

Fresh Well

E401001-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2401006
Total Dissolved Solids	**452**	10.0	1	01/03/24	01/08/24	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: WF			Batch: 2401031
pH @25°C	**7.91**		1	01/04/24 09:23	01/04/24 14:40	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2401037
Specific Gravity	**0.998**		1	01/05/24	01/05/24	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: DT			Batch: 2401016
Chloride	**92.1**	2.00	1	01/03/24	01/03/24	

envirotech Inc.

Sample Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	1/8/2024 4:29:56PM

Monitor Well

E401001-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2401006
Total Dissolved Solids	**224**	10.0	1	01/03/24	01/08/24	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: WF			Batch: 2401031
pH @25°C	**7.80**		1	01/04/24 09:23	01/04/24 14:40	H5
Wet Chemistry by SM2710F	N/A	N/A	Analyst: KH			Batch: 2401037
Specific Gravity	**0.996**		1	01/05/24	01/05/24	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: DT			Batch: 2401016
Chloride	**91.9**	2.00	1	01/03/24	01/03/24	

Page 7 of 14

envirotech Inc.

QC Summary Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 1/8/2024 4:29:56PM

Wet Chem/Gravimetric by SM2540C

Analyst: RAS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2401006-BLK1)							Prepared: 01/03/24 Analyzed: 01/08/24		
Total Dissolved Solids	ND	10.0							
LCS (2401006-BS1)							Prepared: 01/03/24 Analyzed: 01/08/24		
Total Dissolved Solids	82.0	10.0	100		82.0	55-134			
Duplicate (2401006-DUP1)				**Source: E401002-02**			Prepared: 01/03/24 Analyzed: 01/08/24		
Total Dissolved Solids	595	10.0		380			44.1	5	R3

envirotech Inc.

QC Summary Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 1/8/2024 4:29:56PM

Wet Chemistry by 9040C/4500H+B

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	
LCS (2401031-BS1)							Prepared: 01/04/24 Analyzed: 01/04/24		
pH	8.00		8.00		100	98.75-101.25			
Duplicate (2401031-DUP1)				**Source: E401001-01**			Prepared: 01/04/24 Analyzed: 01/04/24		
pH	6.94			6.93			0.144	20	

QC Summary Data

Llano Disposal LLC	Project Name:	U Bar Brine Station	**Reported:**
PO Box 250	Project Number:	22117-0001	
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	1/8/2024 4:29:56PM

Total Metals by EPA 6010C

Analyst: JL

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2401003-BLK1)							Prepared: 01/04/24 Analyzed: 01/04/24		
Sodium	ND	2.00							
LCS (2401003-BS1)							Prepared: 01/04/24 Analyzed: 01/04/24		
Sodium	20.2	2.00	20.0		101	80-120			
Matrix Spike (2401003-MS1)				**Source: E312156-01**			Prepared: 01/04/24 Analyzed: 01/04/24		
Sodium	1800	20.0	200	1550	129	75-125			M4
Matrix Spike Dup (2401003-MSD1)				**Source: E312156-01**			Prepared: 01/04/24 Analyzed: 01/04/24		
Sodium	1790	20.0	200	1550	125	75-125	0.500	20	

QC Summary Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 1/8/2024 4:29:56PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2401016-BLK1)									Prepared: 01/03/24 Analyzed: 01/03/24
Chloride	ND	2.00							
LCS (2401016-BS1)									Prepared: 01/03/24 Analyzed: 01/03/24
Chloride	24.9	2.00	25.0		99.7	90-110			
LCS Dup (2401016-BSD1)									Prepared: 01/03/24 Analyzed: 01/03/24
Chloride	25.0	2.00	25.0		100	90-110	0.329	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Llano Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250	Project Number:	22117-0001	**Reported:**
Lovington NM, 88260	Project Manager:	Elizabeth Pickerel	01/08/24 16:29

H5	pH is specified to be performed in the field within 15 minutes of sampling. The sample analysis was performed as quickly as possible.
M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: Llano Disposal LLC
U Bar Brine Station
Project Manager: Elizabeth Pickerel
Address: PO Box 250
City, State, Zip Lovington NM 88260
Phone: 575-605-6490
Email: service.llanobrine@gmail.com
Report due by:

Bill To
Attention: Llano Disposal LLC
Address: PO Box 250
City, State, Zip Lovington NM 88260
Phone: 575-605-6490
Email: service.llanobrine@gmail.com

Lab Use Only: Lab WO# E401001 | Job Number 22117-0001

TAT: 1D | 2D | 3D | Standard (x)

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | Sodium | TDS, Spec. Gravity | BGDOC NM | Chlorides, pH in Water | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
6:35	12/29/23	A	1	Brine Well	1	
6:40	12/29/23	A	1	Fresh Well	2	
6:42	12/29/23	A	1	Monitor Well	3	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Elizabeth Pickerel

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 oC on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/29/2023	1:33pm		12.29.23	1333
	12.31.23	1040		1/2/24	800

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp oC 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 13 of 14

Envirotech Analytical Laboratory

Printed: 1/2/2024 9:20:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Llano Disposal LLC	Date Received:	01/02/24 08:00	Work Order ID:	E401001
Phone:	575-605-6490	Date Logged In:	01/02/24 09:04	Logged In By:	Alexa Michaels
Email:	service.llanobrine@gmail.com	Due Date:	01/08/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes
2. Does the number of samples per sampling site location match the COC	Yes
3. Were samples dropped off by client or carrier?	Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes

Carrier: Courier

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	No
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No
29. Was a subcontract laboratory specified by the client and if so who?	NA

Subcontract Lab: NA

Comments/Resolution

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

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Page 14 of 14

Sample Data

Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	**Reported:** 7/7/2023 2:15:06PM

Monitor Well

E306219-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2326065
Total Dissolved Solids	**457**	10.0	1	06/29/23	06/29/23	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2326067
pH @25°C	**7.90**		1	06/29/23 10:39	06/29/23 14:00	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batch: 2327022
Specific Gravity	**1.008**		1	07/06/23	07/06/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: BA			Batch: 2326045
Chloride	**89.6**	2.00	1	06/29/23	06/29/23	

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Llano Disposal, LLC certifies 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 provided herein.

Darr Angell	Owner/Permittee Holder
Name	Title
Darr Angell	10/28/24
Signature	Date

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

Operator: LLANO DISPOSAL, L.L.C. P.O. Box 250 Lovington, NM 88260	OGRID: 370661
	Action Number: 396114
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

COMMENTS

Created By	Comment	Comment Date
cchavez	Annual Report 2023	2/27/2025

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

CONDITIONS

Operator: LLANO DISPOSAL, L.L.C. P.O. Box 250 Lovington, NM 88260	OGRID: 370661
	Action Number: 396114
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Conditions of approval: 1. Appendix C corrections are needed. a.) Continue to use original monument elevations determined by Pettigrew. b.) Corrections to "relative percent differences- RPDs" are required in "Monument Survey Table - BW-35" are required. OCD calculations indicate RPDs << 0.1 ft. stipulated in DP Condition 2.B.1 but Permittee shows some values exceeding 0.1 and OCD was never contacted. 2. Resubmit revised Appendix C "Monument Survey Table - BW-35" RPDs to OCD via e-mail within 5 working days of today's date of 2/27/2025. Confirm that Monument elevation RPDs are indeed less than 0.1 ft.	2/27/2025