# 2023 Annual Class III Well Report Llano Disposal, LLC **BW-35** API – 30-25-30701

Submitted by: Laura Angell, 10/28/24

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#### 2023

#### 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

	Brine	Brine	Fresh	Fresh		Percent	
	Monthly	Cumulative	Monthly	Cumulative		Fresh/	
Month	BBLS	BBLS	BBLS	BBLS	PSI	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 <i>,</i> 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 <i>,</i> 088	90,276	206.0	1.1098	10.41
May	23,058	104,541	25 <i>,</i> 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

		Brine	Brine	Fresh	Fresh
		Yearly	Cumulative	Yearly	Cumulative
	Year	BBLS	BBLS	BBLS	BBLS
	2017	56,721	56,721	62,499	62 <i>,</i> 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.

#### 2023

#### **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:

	Sai	nple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar 1 22117- Elizabe	Brine Station 0001 eth Pickerel			<b>Reported:</b> 1/8/2024 4:29:56PM
	Mo	nitor Well				
	E4	01001-03	-			
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L Analyst: RAS		Batch: 2401006		
fotal Dissolved Solids	224	10.0	1	01/03/24	01/08/24	Batch: 2401000
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	st: WF		Batch: 2401031
он @25°С	7.80		1	01/04/24 09:23	01/04/24 14:40	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analy	st: KH		Patabi 2401027
pecific Gravity	0.996		1	01/05/24	01/05/24	Baten: 2401037
Anions by EPA 300.0/9056A	mg/L	mg/L	Analy	st: DT		Batch: 2401016
Chloride	91.9	2.00	1	01/03/24	01/03/24	Daten. 2401010

#### **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.

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Llano Disposal, LLC BW35 API 30-025-30701

#### 2023

#### **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.

#### 2023

#### **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.

#### 2023

#### 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.



#### 2023

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

A <u>MIT</u> 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 <u>Subsidence Report</u> 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 <u>Cavern Size & Shape, Cavern Volume and Geometry Measurements</u>, is in **APPENDIX B** at the end of this report.

In <u>conclusion</u>, 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.

#### 2023

#### Injected Fluids to Brine Ratio

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

#### **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.

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## **APPENDIX A**

MITs

Annual Report

Llano Disposal, LLC BW35 API 30-025-30701

Submit 1 Copy To Appropriate District	State of Mark	Tug
Office <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013
District II - (575) 748-1283 811 S. First St., Artesia, NM 88710	OIL CONSERVATION DIVISION	30 - 02 5-307 01
District III - (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
District IV - (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No
87505		Salada
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOSA	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)	TION FOR PERMIT" (FORM C-101) FOR SUCH	Signan Acs St
1. Type of Well: Oil Well G	as Well DOther BSW	8. Well Number 1
2. Name of Operator Lans	isposal 1/ LC	9. OGRID Number
3. Address of Operator		10. Pool name or Wildcat
4. Well Location	Devington in orde	0 BSW (B(ine)
Unit Letter D : 6	Le D feet from the U line and	(0 0 feet from the 1 0 line
Section 26	Township 175 Range 36E	NMPM County Leo
	11. Elevation (Show whether DR, RKB, RT, GR,	etc.)
12. Check Ap	propriate Box to Indicate Nature of Noti	ce, Report or Other Data
NOTICE OF INT	ENTION TO:	UBSEQUENT REPORT OF
PERFORM REMEDIAL WORK	PLUG AND ABANDON	
	CHANGE PLANS COMMENCE	DRILLING OPNS. PANDA
	MULTIPLE COMPL CASING/CEN	MENT JOB
CLOSED-LOOP SYSTEM		
OTHER:		) IT
<ol> <li>Describe proposed or complet</li> </ol>	ed operations. (Clearly state all pertinent details	, and give pertinent dates, including estimated date
of starting any proposed work	<ol> <li>SEE RULE 19.15.7.14 NMAC. For Multiple unlation</li> </ol>	Completions: Attach wellbore diagram of
proposed completion of recom	ipenon.	
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#### Annual Report Lla

Llano Disposal, LLC BW35 API 30-025-30701

2023



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## 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	1.04	-	-
- 500	-	- 500	1.4	-	
- 700	-	- 700	1.4	-	-
- 1000		- 1000		-	-
- 200	-	- 200	1.4	121	
- 0	· · · ·	- 0			

**Remarks:** 

Signature: AL

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## **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 =  $(1/3) \times pi (Rsq + (R \times r) + rsq) H$ 

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



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## **APPENDIX C**

Subsidence Survey Results

2023

1	SIRINGO ACS	STATE ;	#1 API	#30-02	25-3070	01
Dñ March (AP( )	20, 2023 a field surve #30-025-30701) and fo Township 17 South Located a	y was conducted our subsidence r 1, Range 36 Eas pproximately 6.5	t of the Lian monuments la st. N.M.P.M., L miles East a	a Disposal LLC cated in Unit .ea County, Né f Maljamar Ni	: — Siringo AC letter D, Secti w Mexico. M.	S State #1 ion 26,
VERTICAL	ELEVATION TABLE		51 /5-11	E / F	5. (5	E /5-10
Survey	Original Survey EL (Fee	t) EL (Feet)	EL (Feet)	EL (Feet)	EL (Feet)	EL (Feet)
Monument ID	3828 30*	3828.24				
2	3827 30*	3827.20				
3	3826.93*	3826.85				
4	3830.01*	3829.96				
Well Flange	-	3828.36				
Bench Mork	3813.31*	3813.31				
Control Point	-	3827.42				
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2023

#### **Monument Survey Table - BW-35**

Monument ID-1, Horizontal Loc	ations: Northing - 65	9971.74, 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 Loc	ations: Northing - 66	1265.11, Eastling - 848987.55
Survey Date	Elevation	+/- tt.
4/10/2017	3827.32	*
2/10/2022	3827.30	0.02 *
3/20/2023	3827.20	0.10
Monument ID-3. Horizontal Loc	ations: Northing - 66	0370.60. 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 Loc	ations: Northing - 66	0441.60, 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
	Northing CCO2C7.2	1 Fastling 040402.07
Survey Date	Elevation	1, Easting - 849102.07
		+/-11.
4/10/2017	2027.07 2027.07	0.12 *
2/10/2022	2027.74	0.15
5/20/2025	3020.30	-0.82
Benchmark, Horizontal Locatior	ns: 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.

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## **APPENDIX D**

Sundries

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2023

There were no sundries in 2023.

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## **APPENDIX E**

Well Diagrams

#### Annual Report



#### Annual Report

### Llano Disposal, LLC BW35 API 30-025-30701



## **APPENDIX F**

**Chemical Analysis** 

**Annual Report** 





## 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.

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**Annual Report** 

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.

**Raina Schwanz** 

Laboratory Administrator

Office: 505-632-1881

Respectfully,

#### Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 Ijarboe@envirotech-inc.com

rainaschwanz@envirotech-inc.com

Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Llano Disposal, LLC BW35 API 30-025-30701

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QC - Total Metals by EPA 6010C	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	11
Chain of Custody etc.	12

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		Sample Sum	mary		
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel		<b>Reported:</b> 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

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envirotech Inc.

	San	nple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	ect Name: U Bar Brine Station ect Number: 22117-0001 ect Manager: Elizabeth Pickerel			<b>Reported:</b> 4/7/2023 11:28:58AN	
	Br	ine Well				
	E3	03131-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF		Batch: 2313044	
fotal Dissolved Solids	310000	500	1	03/30/23	04/03/23	Baten, 2313044
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Patala 2212006
H @25°C	7.08	1000	1	03/31/23 11:37	03/31/23 11:51	Н5
Vet Chemistry by SM2710F**	N/A	N/A	Analyst: KH			Batabi 2214002
pecific Gravity	1.191		1	04/03/23	04/03/23	Batch: 2314002
fotal Metals by EPA 6010C	mg/L	mg/L	Analyst: RKS		Batak 2214015	
odium	130000	2000	1000	04/04/23	04/06/23	Daten: 2314015
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2313097
hloride	654000	4000	2000	02/21/22	0.110.110.0	201007

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envirotech Inc.

	Sai	nple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar 1 22117- Elizabe	Brine Station 0001 eth Pickerel			<b>Reported:</b> 4/7/2023 11:28:58AM
	Fi	esh Well				
	E3	303131-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batah: 2212044
fotal Dissolved Solids	465	10.0	1	03/30/23	04/03/23	Bach. 2313044
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2313096
H @25°C	7.59		1	03/31/23 11:37	03/31/23 11:51	H5
Vet Chemistry by SM2710F**	N/A	N/A	Analyst: KH		Batch: 2214002	
specific Gravity	0.987		1	04/03/23	04/03/23	Daten. 2314002
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS		Batch: 2313007	
Chloride	89.4	2.00	1	02/21/22	04/02/02	Baten. 2313097

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envirotech Inc.

	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager	U Bar I 22117- Elizabe	Brine Station 0001 eth Pickerel			<b>Reported:</b> 4/7/2023 11:28:58AM
	Мо	nitor Well				
	E	303131-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: KF			Batch: 2212044
Total Dissolved Solids	467	10.0	1	03/30/23	04/03/23	Bach. 2313044
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: BA			Batch: 2313096
он @25°С	7.72		1	03/31/23 11:37	03/31/23 11:51	Н5
Wet Chemistry by SM2710F**	N/A	N/A	Analyst: KH		Batch: 2314002	
Specific Gravity	0.989		1	04/03/23	04/03/23	Daten: 2314002
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS		Patab. 2212007	
Chloride	92.3	2.00	1	03/31/23	04/03/23	Baten: 2313097

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envirotech Inc.
	_	QCS	Sumn	nary Data	a					
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager	1	U Bar Brine Sta 22117-0001 Elizabeth Picker	tion rel			Reported: 4/7/2023 11:28:5		
		Wet Chem/	Gravim	etric by SM2	540C				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)							Branna L.O.	2/20/22		
Total Dissolved Solids LCS (2313044-BS1)	ND	10.0			-		Prepared: 0.	5/30/23 Ar	ialyzed: 04/03/23	
Total Dissolved Solids Duplicate (2313044-DUP1)	97.0	10.0	100	Sources	97.0	55-134	Prepared: 0	3/30/23 An	nalyzed: 04/03/23	
Total Dissolved Solids	2930	10.0	-	2940	2303107-0	<u>u</u>	0.341	5 5	alyzed: 04/03/23	

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envirotech Inc.

2023

Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number Project Manage	n ir:	U Bar Brine Sta 22117-0001 Elizabeth Picke	ution rel				<b>Reported:</b>
		Wet Chem	istry by	9040C/4500	H+B				Analyst D4
Analyte	Result pH Units	Reporting Limit pH Units	Spike Level pH Units	Source Result pH Units	Rec %	Rec Limits	RPD	RPD Limit	Analyst: BA
LCS (2313096-BS1)			-			70	70	70	Notes
pH	7.97		8.00		99.8	08 75 101 2	Prepared: 0	3/31/23 At	alyzed: 03/31/23
Duplicate (2313096-DUP1)				Source:	E303129-	98.75-101.2	Pranarad. 0	2/21/22 4-	1 1 03/31/33
pH	6.79			6.76	2505129-0	<b>1</b>	0.443	20 20	alyzed: 03/31/23

		QC S	umm	ary Dat	a				
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager	:	U Bar Brine Sta 22117-0001 Elizabeth Picke	ation rrel				<b>Reported:</b> 4/7/2023 11:28:58AM
		Total N	letals b	y EPA 60100	2				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)							P		
Sodium	ND	2.00			1		Prepared: 04	4/04/23 An	alyzed: 04/06/23
LCS (2314015-BS1)							Prenared: 04	1/04/23 An	aluzad: 04/06/22
Sodium	20.7	2.00	20.0		103	80-120	rieparea. o	104/25 All	alyzed. 04/00/23
Matrix Spike (2314015-MS1)				Source:	E303161-0	)1	Prenared: 04	1/04/23 An	aluzad: 04/06/22
Sodium	29.8	2.00	20.0	9.44	102	75-125	Trepared. 0	10425 All	aryzeu. 04/00/23
Matrix Spike Dup (2314015-MSD1)				Source:	E303161-0	1	Prepared: 0/	1/04/23 4.	alumed: 04/06/22
Sodium	33.2	2.00	20.0	0.44	110		repared. 0-	And All	alyzeu. 04/00/23

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envirotech Inc.

		QC S	umm	ary Dat	a				
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager:		U Bar Brine Sta 22117-0001 Elizabeth Picke	ation rel		_		Reported: 4/7/2023 11:28:58AM
		Anions	by EPA	300.0/9056	1				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)							Deserved 0	2/21/22	
Chloride	ND	2.00					Prepared: 0	3/31/23 A	analyzed: 04/03/23
LCS (2313097-BS1)									
Chloride	26.1	2.00	25.0		105	90-110	repared: 0	5/31/23 A	nalyzed: 04/03/23
LCS Dup (2313097-BSD1)						202110			
Chloride	25.6	2.00	25.0		100 m		Prepared: 0.	3/31/23 A	nalyzed: 04/03/23

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.

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envirotech Inc.

2023

	Definition	s and Notes	
Llano Disposal LLC	Project Name:	U Bar Brine Station	
Lovington NM, 88260	Project Number: Project Manager	22117-0001	Reported:
	r toject Manager.	Elizabeth Pickerel	04/07/23 11:28
H5 pH is specified to be performed	in the field within 15 minutes of san	npling. The sample analysis was performed as	mickly as possible
ND Analyte NOT DETECTED at or ab	ove the reporting limit	r c r induite as periorined as	quickly as possible.
NR Not Reported			
RPD Relative Percent Difference			
DNI Did Not Ignite			
Note (1): Methods marked with ** are non-accredit	ted methods.		
Note (2): Soil data is reported on an "as received"	weight basis, unless reported otherwise.		
			B
	Pag	le 12 of 14	envirotech Inc.

2023

Projec	t Inform	ation						Chain	of C	usto	dy											Page	e
Client: Project	Llanc	Disposa	I LLC			Bil	І То		E	_	La	b Us	e On	ly	-	T	-	т	AT	-	FDA	Drograw	7
Project	Manager s: PO	Eliza	abeth Pic	kerel	A	tention: Llano D ddress: PO Box	isposal LLC 250		E	wo:	13	1	Job 22	Num	ber	1	20	3D	Sta	x	CWA	SDWA	-
City, Sta Phone:	ate, Zip Lo 575	ovington	NM 882	60	P	none: 575-605-64	90 brine@amo	il com	-	Nq O	1	A	Inalys	is and	Met	hod	T	T			-	RCRA	
Email: Report	service.ll: due by:	anobrine	@gmail.	com			STILL STILL	n.com_		/DRO/OR	021	090	10	00.0		NUM	ni Hd	×		NM CC	State	ZTX	
Sampled	Date Sampled	Matrix	No. of Cuntamers	Sample	D			Lab Numbe	r	TPH GRO	<b>STEX by 8</b>	/OC by 8.	Aetals 60	Chloride 3	odium	DS, Spec. 0	hlorides	DOC 1			Remark	s	
6:34	3/29/23	A	1	-		Brine Well		1							x	K	×	6					
6:36	3/29/23	A	1			Fresh Well		2								ĸ	×				-		1
-		A		-		violition well		3								ĸ	×						1
-	-			-							-		_	-	-								
-			-					-		-	-	-	-	-	-	_	-						
										-	-	-	-	-	-	-	-			_			
									-	-	+	-	-	-	+	+	-	-					
								-		-	+	-	-	-	+	-	-	-	-				
										-	-	-	-	-	-	-	-		-				
Addition	nal Instru	ctions:								-	-		-	-	-	1	1		-		-		
date or tim Relinquish	e of collectioned by: (Sim	to the valid in is conside nature1	ity and auth ared fraud a	enticity of th nd may be g	is sample. I am i ounds for legal a	aware that tampering with ction. <u>Sampled by</u>	or intentionally Elizabeth Pic	mislabelling <u>kerel</u>	the sar	nple lo	cation,	5	amples	requiri packed	ng there I in ice a	nai presi t an avg	ervation temp at	must be	t receive ut less t	d on ice the han 6 oC on	day they one subsequent	t sampled or days.	
Relinquist	level ned by: (Sig	nature)	Date		11:50 Time	Received by: (Signati	unh	Date 3-29	23	Time	50	) ,	Recei	ved o	on ice	L	Ab Us	e On N	ly				
Relinguish	ned by: (Sig	ature)	b J Date	19.23	11 1715 Time	Received by: (Signatu	fei,	3-2-7.	23	12 Time	32	]	1			12			_ 1	3			
Nore Sample Ma	trix: 5 - Soil,	Les	g - Sludge, A	- Aqueous	23/5 0-Other	2rem 3r	32	03/30	23	7:(	00	A	AVG 1	emp	oC_	4.0	_	-					
Note: Sam of the abo	iples are dis we samples	icarded 30 Is applical	days after ble only to	results are those sam	reported unles ales received b	s other arrangements the laboratory with th	are made. Haz his COC. The lial	ardous san bility of the	nples w	ill be	lass, eturn limit	p - p ned to	oly/p clien the a	lastic t or di mount	spose	d of at	the clithe	ient ex	/OA pense	. The rej	port for th	e analysis	
											-	-				a. vil	and re	port.	-	-			

## Llano Disposal, LLC BW35 API 30-025-30701

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2023

nstructions:	Please take note of any NO checkmarks.	Envirotech Sample	Analy Receipt	Check	Laborat list (SRC)	T	Printed: 3/30/2023 10:48:54AN		
Client:	Llano Disposal LLC	of the date of this not	ice, all the	e samples	will be analy:	zed as reque	sted.		
Phone: Email:	575-605-6490 service.llanobrine@gmail.com	Date Received: Date Logged In: Due Date:	03/30/23 03/29/23 04/05/23	3 07:00 3 15:37 3 17:00 (4	day TAT)		Work Order ID: Logged In By:	E303131 Caitlin Christian	
Chain of (	Custody (COC)								
1. Does th	e sample ID match the COC?		Van						
2. Does the	e number of samples per sampling site location r	natch the COC	Vec						
3. Were sa	mples dropped off by client or carrier?		Yes		Carrier: Cou	rier			
4. Was the	COC complete, i.e., signatures, dates/times, req	uested analyses?	Yes						
5. were all	Samples received within holding time? Note: Analysis, such as pH which should be conducte i.e, 15 minute hold time, are not included in this disuc	d in the field, ssion.	Yes				Comment	rs/Resolution	
Sample Tu	Irn Around Time (TAT)				-		Comment	S/Resolution	
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes						
7 Was a m	ample cooler received?								
8. If ves, w	/as cooler received in good condition?		Yes						
9. Was the	sample(s) received intact i e not broken?		Yes						
10. Were c	ustody/security seals present?		Yes						
11. If yes,	were custody/security seals intact?		No						
12. Was the	sample received on ice? If yes, the recorded temp is 4° Note: Thermal preservation is not required, if samples	C, i.e., 6°±2°C are received w/i 15	NA Yes						
13. If no vi Sample Co	sible ice, record the temperature. Actual samp	le temperature: 4%	2						
14. Are aqu	ueous VOC samples present?		Ne						
15. Are VC	OC samples collected in VOA Vials?		NA						
6. Is the h	ead space less than 6-8 mm (pea sized or less)?		NA						
7. Was a t	rip blank (TB) included for VOC analyses?		NA						
8. Are not	n-VOC samples collected in the correct container	rs?	Yes						
19. Is the ap	propriate volume/weight or number of sample cont	ainers collected?	Yes						
Wara fi	<u>4</u> ald annual to be the first state of the								
San	nple ID?	formation:							
Dat	re/Time Collected?		Yes						
Col	lectors name?		No						
ample Pro	eservation								
2 Are corr	e COC or field labels indicate the samples were	preserved?	No						
4. Is lab fi	literation required and/or requested for direct 1		NA						
Iultinhaed	Sample Matrix	metals?	No						
6. Does the	e sample have more than one phase is multi-	2009							
7. If yes, d	oes the COC specify which phase(s) is to be an	ase: lyzed?	No						
ubcontrac	t Laboratory	.yzou:	NA						
9. Was a si	abcontract laboratory specified by the sting	ory?	No						
Client Inet	ruction	n so who?	NA	Subcont	tract Lab: na				
chent mst	raction								





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## **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

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.

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	and the second	Sample Sum	mary		
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	<b>Reported:</b> 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

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20	Z	3

(	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Brine Station 0001 th Pickerel		<b>Reported:</b> 7/7/2023 2:15:06PN			
	В	rine Well	1997		- 11	
	E	306219-01	1			
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analy	st: KF		Date 2220005
Fotal Dissolved Solids	321000	200	1	06/29/23	06/29/23	Batch: 2320005
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	st: BA		Batch: 2326067
ын @25°С	7.06		1	06/29/23 10:39	06/29/23 14:00	Н5
Wet Chemistry by SM2710F**	N/A	N/A	Analys	t: KH		Bataba 2227022
pecific Gravity	1.208		1	07/06/23	07/06/23	Batch: 232/022
Total Metals by EPA 6010C	mg/L	mg/L	Analys	T. RKS		
Sodium	133000	2000	1000	07/05/23	07/06/23	Batch: 2327011
Anions by EPA 300.0/9056A	mg/L	mø/I	Analys	t- DA	01100/25	1
Chloride	194000	4000	2000	06/20/23	06/20/22	Batch: 2326045

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	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager	U Bar I 22117- Elizabe	Brine Station 0001 eth Pickerel			Reported: 7/7/2023 2:15:06PM
	F	resh Well				
	E.	306219-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analy	st: KF		Batch: 2226065
otal Dissolved Solids	539	10.0	1	06/29/23	06/29/23	Batch. 2320003
Vet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	st: BA		Batch: 2326067
H @25°C	7.81		1	06/29/23 10:39	06/29/23 14:00	H5
Vet Chemistry by SM2710F**	N/A	N/A	Analy	st: KH		Batch: 2327022
pecific Gravity	1.006		1	07/06/23	07/06/23	Daten. 2327022
Anions by EPA 300.0/9056A	mg/L	mg/L	Analy	st: BA		Patak: 2226045
Chloride	89.7	2.00	1	06/29/23	06/29/23	Datch: 2320043

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envirotech Inc.

2023

Project	Information
Froject	information

Chain of Custody

Page \_ [ of ]

U Bar B	rine Statio	on				tention: Linno Disposel I				La	b U	se Or	nly					TA	σ	EPA P	rogran		
Project Address	Manager	Eliza	beth Pic	kerel	A	ddress: PO Box 250		E	304	# 21	9	Job 22	Nun	nber	Ø	1D	2D	3D	Standard	CWA	SDV		
City Sta	te Zin Lo	Vington			<u>C</u>	ty, State, Zip Lovington N	M 88260				Analysis and Meth				etho	d	-		×	-	DCO		
Phone:	575	GOE GAR	NIVI 8820	20	민	none: 575-605-6490		1	No.							ľ l	-		-	-	RCH		
Email:	service IIa	nohrino	Ormail		Er	mail: service.llanobrine@g	mail.com		RO											State	-		
Report	due by:	TODITIE	cogman.	om					5/0	-					N	5	E		NM CO	JUT A7	TV		
Time	Date				1				8010	802	3260	010	300		Ga	Z	S, p	¥		101 ML	11		
Sampled	Sampled	Matrix	Containers	Sample ID Lab S		1		HGRO	HGRO	HGRO	HGRO	EX by	C by	stals 6	oride	lium	, Spec	DOC	oride Wa	ĸ		Domester	-
6:43	6/28/23	A	1			Brine Well	1		d.	81	N.	Me	B	N SOL	K TDS	86	Ch Ch	GD	-	Remarks			
6:46	6/28/23	A	1			Fresh Well	2			-	-	-	-	^	^	-	×	-	-				
6:47	6/28/23	Λ.			-		6								x		x						
		M	1			Vionitor Well	3								x		x				-		
															-	-	-		-	-			
							-	-		-		_	_		_		_	_	-				
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-	-		-																1				
-	-							1							-			-					
ddition	al Instruc	tions:						6		-	-	-	_	-	_	_	_	_					
(field sam	pler), attest t	o the validit	y and autho	nticity of this samp	de. Lam	aware that tampering with or intentio	and the second state of the			_	_		-			_							
ate or time	of collection	is consider	ed fraud an	d may be grounds f	for legal a	ction. Sampled by: Elizabe	th Pickerel	ne sa	mple lo	cation,	•	receive	is requi	ed in ice	ermal p e at an	avg ter	ation mp abo	nust be i we 0 but	received on ice the t less than 6 of on	day they are	sampled		
CO'	ed by: (Sign	ature)	6/28/	2023 Time		Received by: (Signature)	Date		Time	-	-	-	-								072.		
elinquish	the of			1:01	3 pm	Mulletin &	1017-	23	13	Di	51	Pore	lund	-		A	JUse	Only	Y				
Nia	uluk	lind	L- Co	DED Time	GC	Received by: (Signature)	Date 12	S-DA	Time	20		nece	iveo	on a	ce: (	0	// 1	4					
elinquish	d by: (Sign.	ature)	Date	1.82 Time	45	Retrived by: (stenature)	Date		Time	20	-	T1		-		12	-	-	_ <u>T3</u>				
ample Mat	rix: S - Soil, Se	- Solid Se	Siurian	0 0.	1)	Munda	· (e/29/0	3	8:	00		AVG	Tem	poC	4	4							
oto: Cam	los pro dise	inside d 20	- annage, A	Aqueous, 0 - Othe	er	and a second	Container	Type	e:	alace	n	achil	al a sur		-	and the second second		-					

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## Llano Disposal, LLC BW35 API 30-025-30701

2023	

		Envirotech	Tina		•		Timed: 0/29/2023 12:0/:35P
nstructions f we receive	Please take note of any NO checkmarks.	Sample	Receip	t Checklist (SRC)			
Client:	Llano Disposal LLC	ours of the date of this not	tice, all f	ie samples will be analy.	zed as requeste	ed.	-
Phone:	575-605-6490	Date Received:	06/29/	23 08:00		Work Order ID:	E306219
Email:	service.llanobrine@gmail.com	Date Logged In:	06/29/	23 08:44		Logged In By:	Caitlin Mars
		Due Date.	07/07/	23 17:00 (4 day TAT)			
Chain of	f Custody (COC)						
1. Does t	he sample ID match the COC?		Yes				
2. Does t	the number of samples per sampling site loca	ion match the COC	Yes				
4 Was th	e COC complete is a similar to the		Yes	Carrier: Cou	urier		
5. Were a	all samples received within holding time?	, requested analyses?	Yes				
	Note: Analysis, such as pH which should be con	ducted in the field,	Yes				
	i.e, 15 minute hold time, are not included in this	disucssion.				Comment	s/Resolution
Sample 1	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited T	AT?	Yes	C			
7 Was n	sample cooler manium/0						
8. If ves	was cooler received in good and this of		Yes				
9. Was the	e sample(s) received in good condition?		Yes				
10. Were	custody/security seels		Yes				
11. If von	were custody/security seals present?		No				
12 Was th	a sample received as in a sample received as a samp		NA	3			
12. was ui	Note: Thermal preservation is not required, if sar minutes of sampling	is 4°C, i.e., 6°±2°C aples are received w/i 15	Yes				
13. If no v	visible ice, record the temperature. Actual	sample temperature: 4°	С				
Sample C	Container						
14. Are ac	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or le	ss)?	NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct con	ainers?	Yes				
Field Tab	appropriate volume/weight or number of sample	containers collected?	Yes				
20. Were f	ter field sample labels filled out with the minimu mode ID?	m information:					
Da	ate/Time Collected?		Yes				
Co	ollectors name?		Yes				
Sample P	reservation		103				
1. Does t	he COC or field labels indicate the samples v	vere preserved?	No				
2. Are sai	mple(s) correctly preserved?		NA				
Aulti-L	a Samula Market	lved metals?	No				
6 Does H	be sample have more t						
7. If ves	does the COC specify which always a	Itiphase?	No				
	the coc specify which phase(s) is to be	analyzed?	NA				
a Area	net Laboratory						
9. Was a s	subcontract laboration	poratory?	No				
Client	the client	and if so who?	NA	Subcontract Lab: na			
cuent Ins	struction						





## 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.

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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,

#### Walter Hinchman

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Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Technical Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

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Llano Disposal, LLC BW35 API 30-025-30701

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Monitor Well	7
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QC - Total Metals by EPA 6010C	10
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	and the second	Sample Sum	mary		
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: U Bar Brine Sta Project Number: 22117-0001 Project Manager: Elizabeth Picker			<b>Reported:</b> 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 500mI
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

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	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number Project Manager	U Bar 1 22117- Elizabe	Brine Station 0001 eth Pickerel			Reported: 10/11/2023 4:52:32PM
	B	rine Well				
	E	310022-01	-			
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	m/Gravimetric by SM2540C mg/L mg/L Analyst: KF			D . 1 2240002		
Total Dissolved Solids	318000	50.0	1	10/06/23	10/06/23	Batch: 2340083
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	at BA		
ьн @25°С	7.01		1	10/05/23 09:47	10/05/23 16:54	Batch: 2340080
Wet Chemistry by SM2710F**	N/A	N/A	Analys	st: KH	10104	H3
Specific Gravity	1.192		1	10/05/23	10/05/23	Batch: 2340077
Total Metals by EPA 6010C	mg/L	mg/L	Analys	et: 11		
Sodium	96400	2000	1000	10/09/23	10/10/23	Batch: 2341012
Anions by EPA 300.0/9056A	mg/L	mg/I	Analyz	+ IV	10/10/25	
Chloride	256000	4000	2000	10/10/23	10/11/22	Batch: 2341045

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envirotech Inc.

	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager	U Bar 22117- Elizabo	Brine Station 0001 eth Pickerel			<b>Reported:</b> 10/11/2023 4:52:32PM
	F	resh Well			30000	
	E	310022-02	_			
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analy	st: KF		Bataba 2240082
fotal Dissolved Solids	455	10.0	1	10/06/23	10/06/23	Batch: 2340083
Vet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	st: BA		Batch: 2340080
ЬН @25°С	8.01		1	10/05/23 09:47	10/05/23 16:54	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analys	st: KH		Patab. 2240077
Specific Gravity	0.998		1	10/05/23	10/05/23	Baten: 2340077
Anions by EPA 300.0/9056A	mg/L	mg/L	Analys	st: IY		D
Chloride	87.6	2.00	1	10/10/23	10/10/23	Batch: 2341045

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envirotech Inc.

	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager	U Bar 22117- Elizabe	Brine Station 0001 eth Pickerel			<b>Reported:</b> 10/11/2023 4:52:32PM
	Mo	onitor Well				
	E	310022-03	_			
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analys	st: KF		Batch: 2340083
Total Dissolved Solids	487	10.0	1	10/06/23	10/06/23	Bach. 2340003
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analys	st: BA		Batch: 2340080
Н @25°С	7.96		1	10/05/23 09:47	10/05/23 16:54	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analys	st: KH		Batch: 2340077
pecific Gravity	1.000		1	10/05/23	10/05/23	Baten: 2540077
Anions by EPA 300.0/9056A	mg/L	mg/L	Analys	it: IY		Batch: 23/10/5
Chloride	87.5	2.00	1	10/10/22	10/10/22	Baten. 2341043

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Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager:		U Bar Brine St 22117-0001 Elizabeth Picke	ation rrel			11	Re 10/11/202	eported: 23 4:52:32PM
		Wet Chem/G	Fravim	etric by SM2	2540C				Analy	vst: KF
Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limi %	t	Notes
Blank (2340083-BLK1)	1					-			1	
Total Dissolved Solids	ND	10.0				-	Prepared:	10/06/23	Analyzed:	10/06/23
LCS (2340083-BS1)										
Total Dissolved Solids	117	10.0	100		117	55.124	Prepared:	10/06/23	Analyzed:	10/06/23
Duplicate (2340083-DUP1)				Sauraa	E210022 01	55-154				
fotal Dissolved Solids	414	10.0		425	E310023-01	-	Prepared:	10/06/23	Analyzed:	10/06/23

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Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager	. 1	U Bar Brine Station 22117-0001 Elizabeth Pickerel					Reported:
		Wet Chem	istry by	9040C/4500	H+B		11.5		Analyst: BA
Analyte	Result pH Units	Reporting Limit pH Units	Spike Level pH Units	Source Result pH Units	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
LCS (2340080-BS1)									
H Duplicate (2340080-DUP1)	7.99		8.00	6	99.9	98.75-101.2	Prepared: 10	)/05/23 A	nalyzed: 10/05/23
н	6.85			6.80	E310020-	-01	0.733	20/05/23 A	nalyzed: 10/05/23

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envirotech Inc.

		QCS	Sumn	nary Dat	a					
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number Project Manage	: r:	U Bar Brine St 22117-0001 Elizabeth Picke	ation				Re 10/11/20	eported: 23 4:52:32PM
		Total N	letals b	y EPA 60100	C				Anal	vst: II.
Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPE Lim	) it	Notes
Blank (2341012-BLK1)							B			
Sodium	ND	2.00	-				Prepared: 1	0/09/23	Analyzed:	10/09/23
LCS (2341012-BS1)							Prenared: 1	0/00/22	Analyzed	10/00/00
Sodium	17.5	2.00	20.0		87.7	80-120	rieparea. It	0109123	Analyzeu.	10/09/23
Matrix Spike (2341012-MS1)				Source:	E310013-	04	Prepared: 10	0/09/23	Analyzed:	10/09/23
Sodium	1580	2.00	20.0	1590	NR	75-125				M4
Matrix Spike Dup (2341012-MSD1)				Source:	E310013-	04	Prepared 1	1/00/22	A	10/00/00
Sodium	1560	2.00	20.0	1590	NR	75-125	a ene	09/23	Analyzed:	10/09/23

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envirotech Inc.

2023

		QCS	Summ	ary Dat	a				
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number Project Manager		U Bar Brine Sta 22117-0001 Elizabeth Picke	ation rel			)	Reported:
		Anions	by EPA	300.0/9056	1				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)		a de la come					Duomono di 11	0/10/22	
Chloride	ND	2.00					Prepared: 10	0/10/23 P	analyzed: 10/10/23
LCS (2341045-BS1)							D		
Chloride	24.7	2.00	25.0		98.7	90-110	Prepared: 10	0/10/23 A	analyzed: 10/10/23
LCS Dup (2341045-BSD1)									
Chloride	24.7	2.00	25.0		98.8	90,110	Prepared: 10	0/10/23 A	nalyzed: 10/10/23

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.

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envirotech Inc.

Lland	Disposal II C	Definition	s and Notes	
PO B Lovir	ox 250 gton NM, 88260	Project Name: Project Number: Project Manager:	U Bar Brine Station 22117-0001 Elizabeth Pickerel	<b>Reported:</b> 10/11/23 16:52
Н5	pH is specified to be performed in th	e field within 15 minutes of san	npling. The sample analysis was performed as	auickly as possible
M4	Matrix spike recovery value is suspe associated LCS spike recovery was a	ct since the analyte concentration of the second seco	on in the sample is disproportionate to the spik	te level. The
ND	Analyte NOT DETECTED at or above the	e reporting limit		
NR	Not Reported			
RPD	Relative Percent Difference			
DNI	Did Not Ignite			
Note (1):	Methods marked with ** are non-accredited m	ethods.		
Note (2):	Soil data is reported on an "as received" weigh	t basis, unless reported otherwise.		
			,	

2023

Client:	Llano	Disposa	LUC .		-	Chain	of Cu	usto	dy										Page _
U Bar B Project Address	rine Stati Manager : PO	en Eliza Box 250	abeth Pic	kerel	Attention: Llano Disposa Address: PO Box 250 City, State, Zip Lovingto	NM 88260	Lab E	wor 310	La #	b Us	Job 22	Num 117	ber	of 10	20	T, 3D	AT Standard X	EPA Progr	ram DWA
City, Sta Phone: Email:	service.lla	-605-649 mobrine	<u>NM 882</u> 90 @gmail.	<u>60</u>	Phone: 575-605-6490 Email: service.llanobrine	@gmail.com		A/ORO by			analy	sis and	5 Me	thod	.u			CRA	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab		H GRO/DRC 8015	EX by 8021	C by \$260	stals 6010	loride 300.0	lium	DOC NM	orides, pH	OC TX		UT AZ TX	4
9:30	10/3/23	A	1		Brine Well	1		Ê	10	NC.	W	5	x	X	×	GD		is riter AS	_
9:15	10/3/23	A	1		Fresh Well	2								x	×				
		H	1		Monitor Well	3					_			x	x				
		-	-			-				_			-						
						_		-	-	-	-	-	-						
								-	-	-	-	-	+	-	-		-		-
									1	-		-	+	-	-			-	-
-													1	1					-
ddition	al Instruc	tions:																	
field same	oler), attest b	o the validit	y and auth	enticity of this samp	le. I am aware that tampering with or inter	tionally mislabelling	the sam	unle lor	ation	15	ample	teouiri	of ther	mal news					
linquishe	ed by: (Sign	is consider ature)	ed fraud an	2023 Time	Received by: (Signature)	Date	- 1	Time			eceiver	1 packed	in ice :	it an avg t	emp ab	e Onl	received on ice the day it less than 6 oC on sub	y they are sample sequent days	ed or
linquishe	d by: (Sign	und	Date /0-	3-23 Time	Received by: (Signature)	- 10 Ja Date	3	1JL	52	F	Rece	ived o	on ice	e: (	91	N			
Rol	d by: (Sign:	m de	Date 10	3.23 2	330 Respired by: (Signature)	Date 1.4.7	Z	Time 8.7	20		<u>1</u>			4		-	<u></u> <u>T3</u>		4
te: Samp the abov	ix: 5 - Soil, So les are disc e samples i	arded 30 c	- Sludge, A days after	Aqueous, O - Other results are reported	ed unless other arrangements are mad	Containe le. Hazardous sam	r Type ples w	:g-g ill be r	lass,	p - p	oly/p	lastic,	oC ag -	amber	glass	. v - V	OA T		
					by the laboratory with this COC.	The liability of the	labora	tory is	limit	ed to	the a	mount	paid	for on t	he rej	port.	in the repor	c for the anal-	ysis.
						Page 1	0 -4												

## Llano Disposal, LLC BW35 API 30-025-30701

nstructions:	Please take note of any NO checkmarks.	Envirotech Sample	Analy Receipt	ytical ] t Checkl	Laboratory ist (SRC)		Printed: 10/4/2023 10:26:08AM
Client:	Llano Disposal LLC	e date of this not	ice, all the	e samples	will be analyzed as r	equested.	
Phone:	575-605-6490	Date Received:	10/04/2	3 08:20		Work Order ID:	E310022
Email:	service.llanobrine@gmail.com	Date Logged In: Due Date:	10/04/2 10/10/2	3 10:22 3 17:00 (4	day TAT)	Logged In By:	Caitlin Mars
Chain of	Custody (COC)						
1. Does th	the sample ID match the COC?		Var				
2. Does th	ne number of samples per sampling site location mate	the COC	Vec				
3. Were sa	amples dropped off by client or carrier?		Yes		Partier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes		carrier. <u>Courier</u>		
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e. 15 minute hold time are not included in the first	the field,	Yes				
Sample T	urn Around Time (TAT)	1.				Commen	ts/Resolution
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	Cooler						
7. Was a s	ample cooler received?		Yes				
o. II yes, v	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were c	custody/security seals present?		No				
II. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling	e., 6°±2°C received w/i 15	Yes				
13. If no v	isible ice, record the temperature. Actual sample to	emperature: 4°	2				
Sample C	ontainer						
14. Are aq	ueous VOC samples present?		No				
15. Are VO	OC samples collected in VOA Vials?		NA				
10. Is the r	head space less than 6-8 mm (pea sized or less)?		NA				
17. was a 1	trip blank (TB) included for VOC analyses?		NA				
19. Is the au	phron samples collected in the correct containers?		Yes				
Field Lab	el	rs collected?	Yes				
20. Were fi	ield sample labels filled out with the minimum inform						
Sa	mple ID?	nation:	Vac				
Da	te/Time Collected?		No				
Co	llectors name?		No				
21 Does th	reservation						
22. Are sar	ne cocc of field labels indicate the samples were pres	served?	No				
24. Is lab fi	ilteration required and/or requested for dissolved mo	ela?	NA				
Multiphas	e Sample Matrix	ais?	No				
26. Does th	the sample have more than one phase is multi-	0					
27. If yes, c	does the COC specify which phase(s) is to be analyze	ed?	No				
Subcontra	ct Laboratory		NA				
28. Are san	nples required to get sent to a subcontent 1.1						
9. Was a s	ubcontract laboratory specified by the client and if	who?	No				
Client Inc	truction	o who?	NA	Subcont	ract Lab: na		





# envirotech

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

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.

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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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QC Summary Data	, ,
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QC - Total Metals by EPA 6010C	9
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Definitions and Notes	
Chain of Custody etc.	12
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and the second	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		<b>Reported:</b> 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			

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	San	ple Dat	a			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number: Project Manager:	U Bar I 22117- Elizabe	Brine Station 0001 th Pickerel			Reported: 1/8/2024 4:29:56PM
	Bri	ne Well				
	E40	1001-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analys	st: RAS		Patahi 2401006
Total Dissolved Solids	313000	100	1	01/03/24	01/08/24	Batch. 2401000
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: WF			Patch: 2401021
H @25°C	6.93		1	01/04/24 09:23	01/04/24 14:40	Н5
Vet Chemistry by SM2710F**	N/A	N/A	Analys	at: KH		Batch: 2401037
pecific Gravity	1.199		1	01/05/24	01/05/24	Daten, 2401037
fotal Metals by EPA 6010C	mg/L	mg/L	Analys	t: RKS		Patab: 2401002
odium	133000	2000	1000	01/04/24	01/08/24	Baten, 2401003
Anions by EPA 300.0/9056A	mg/L	mg/L	Analys	t: DT		Patch: 2401016
Chloride	228000	2000	1000	01/03/24	01/02/24	Baten. 2401010

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2	n	2	3
_	v	_	-

	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number Project Manage	U Bar 1 : 22117- r: Elizabe	Brine Station 0001 eth Pickerel			Reported: 1/8/2024 4:29:56PM
	F	resh Well				
	E	401001-02				
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	I	01/03/24	01/08/24	Batch: 2401000
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	st: WF		Patala 2401021
ЪН @25°С	7.91		1	01/04/24 09:23	01/04/24 14:40	Baten: 2401031 H5
Wet Chemistry by SM2710F**	N/A	N/A	Analy	st: KH		Pataki 2401027
Specific Gravity	0.998	1000	1	01/05/24	01/05/24	Batch: 2401037
Anions by EPA 300.0/9056A	mg/L	mg/L	Analy	st: DT		Peter 2401010
Chloride	92.1	2.00	1	01/02/24		Batch: 2401016

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	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name: Project Number Project Manage	U Bar I r: 22117- pr: Elizabe	Brine Station 0001 eth Pickerel			<b>Reported:</b> 1/8/2024 4:29:56PM
	М	onitor Well				
	1	E401001-03		_		
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2401006
fotal Dissolved Solids	224	10.0	1	01/03/24	01/08/24	Batch: 2401000
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: WF			Batab: 2401021
ын @25°С	7.80		1	01/04/24 09:23	01/04/24 14:40	H5
Wet Chemistry by SM2710F**	N/A	N/A	Analys	st: KH		Batch: 2401027
specific Gravity	0.996		1	01/05/24	01/05/24	Daten. 2401037
Anions by EPA 300.0/9056A	mg/L	mg/L	Analys	st: DT		Patak: 2401016
Chloride	91.9	2.00	1	01/02/04	01/02/04	Batch: 2401016

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Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number Project Manager	:	U Bar Brine Sta 22117-0001 Elizabeth Picke	ution rel				<b>Reported:</b> 1/8/2024 4:29:56PM
		Wet Chem/	Gravim	etric by SM2	540C				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)									
Total Dissolved Solids	ND	10.0					Prepared: 0	1/03/24 A	nalyzed: 01/08/24
LCS (2401006-BS1)							Prenared: 0	1/03/24 A	naluzed: 01/09/24
Total Dissolved Solids	82.0	10.0	100		82.0	55-134	rieparea. o	1103/24 A	maryzed. 01/08/24
Duplicate (2401006-DUP1)				Source:	E401002-0	2	Prenared: 0	1/03/24 A	nalurad: 01/08/24
fotal Dissolved Solids	595	10.0		380			44.1	5	naryzeu. 01/08/24

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Met Chemistry by 9040C/4500H+B         Analysi: WF           Analyse         Result pfl Units         Spike pfl Units         Source pfl Units         Rec %         Rec %         Rec %         RPD %         LPD %         MPD %         MPD %<	Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager:	U 22 El	Bar Brine Sta 117-0001 izabeth Picke	ntion				Reported:
Analyte     Reporting pil Units     Spike pil Units     Source pil Units     Rec pil Units     Rec pil Units     Rec %     Rec %     RPD %     RPD %     Notes       Limit pil Units     Prepared: 01/04/24     Analyzed: 01/04/24     Analyzed: 01/04/24       Deplicate (2401031-DUP1)       Source: E401001-01     Prepared: 01/04/24     Analyzed: 01/04/24       Analyzed: 01/04/24			Wet Chemi	040C/4500	1/0/2024 4:29:50					
Result         Limit         Level         Result         Rec         Limits         RPD         Limit           pll Units         pll Units         pll Units         pll Units         pll Units         %         %         %         %         Notes           LCS (2401031-BS1)         Prepared: 01/04/24         Analyzed: 01/04/24         Analyzed: 01/04/24         Analyzed: 01/04/24           pll         8.00         8.00         100         98.75-101.25         Prepared: 01/04/24         Analyzed: 01/04/24           Daplicate (2401031-DUP1)         Source: E401001-01         Prepared: 01/04/24         Analyzed: 01/04/24         Analyzed: 01/04/24           pll         6.94         6.93         0.144         20	Analyte	-	Reporting	Spike	Source		Rec	-	BBD	Analyst: WF
LCS (2401031-BSI)         Prepared:         01/04/24         Analyzed:         01/04/24           pil         8.00         100         98.75-101.25         Prepared:         01/04/24         Analyzed:		Result pH Units	Limit pH Units	Level pH Units	Result pH Units	Rec %	Limits	RPD %	Limit	Notes
pil 8.00 8.00 10 98.75-101.25 Duplicate (2401031-DUP1) Source: E401001-01 Prepared: 01/04/24 Analyzed: 01/04/24 pil 6.94 6.93 0.144 20	LCS (2401031-BS1)						-	Prepared: 0	1/04/24 Ana	lyzed: 01/04/24
Source: E401001-01         Prepared: 01/04/24         Analyzed: 01/04/24           pli         6.93         0.144         20	pli	8.00		8.00		100	98.75-101.2	5		
	pH	6.94			Source:	E401001-6	01	Prepared: 0	1/04/24 Ana	lyzed: 01/04/24
			Р	age 9 of	14			E	3 anvir	otoch Inc
		QCS	umm	nary Dat	a					
---	----------------	---	------------------------	--	--------------	--------------------	-------------	-------------------	--------------------	
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager		U Bar Brine Sta 22117-0001 Elizabeth Picke	ution rel				Reported:	
		Total M	letals b	y EPA 60100	2				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)			-				Brown d. O	1/04/24		
Sodium	ND	2.00		-	_		Prepared: 0	1/04/24 A	analyzed: 01/04/24	
LCS (2401003-BS1)							Desmand 0	104/24		
Sodium	20.2	2.00	20.0		101	80-120	ricpared: 0	1/04/24 A	nalyzed: 01/04/24	
Matrix Spike (2401003-MS1)				Source	E312156-0	1	Dromanad: 0	104/24	1 1 01/01/01	
Sodium	1800	20.0	200	1550	129	75-125	riepared: 0	1/04/24 A	nalyzed: 01/04/24	
Matrix Spike Dup (2401003-MSD1)				Source:	E312156-0	1	Prenared: 0	1/04/24 4	M4	
Sodium	1790	20.0	200	1550	125	75-125	0.500	20	maryzeu. 01/04/24	

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		QCS	umn	ary Dat	a				
Llano Disposal LLC PO Box 250 Lovington NM, 88260		Project Name: Project Number: Project Manager	1	U Bar Brine Sta 22117-0001 Elizabeth Picke	ition rel				Reported:
		Anions	by EPA	300.0/90564	1		22		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)		1000		1.1	-		Proparad: 0	1/02/24	
Chloride	ND	2.00					riepared. 0	1/03/24 A	nalyzed: 01/03/24
LCS (2401016-BS1)							Deserved 0	1/02/24	
Chloride	24.9	2.00	25.0		99.7	90-110	Frepared: 0	1/03/24 A	nalyzed: 01/03/24
LCS Dup (2401016-BSD1)							Deserved 0	1/02/24	
Chloride	25.0	2.00	25.0		100	90-110	o 220	1/03/24 A	nalyzed: 01/03/24

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.

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DO De	Disposal LLC	Project Name:	U Bar Brine Station	
PO Box 250 Lovington NM, 88260		Project Number:	22117-0001	Reported:
		Project Manager:	Elizabeth Pickerel	01/08/24 16:29
H5	nH is specified to be performed in d	6 11 ····		
v14	Matrix spike recovery value is suspe	e neid within 15 minutes of sar	npling. The sample analysis was perforn on in the sample is disproportionate to the	e spike lavel. The
23	associated LCS spike recovery was a	icceptable.		e spike ievei. The
ND.	Analyte NOT DETECTED at an abave th	mit. LCS spike recovery met ac	ceptance criteria.	
NR.	Not Reported	e reporting limit		
RPD	Relative Percent Difference			
ONI	Did Not Ignite			
ONR	Did not react with the addition of acid or	base.		
Note (1): N	Acthods marked with ** are non-accredited me	ethods.		
lote (2): S	oil data is reported on an "as received" weight	basis, unless reported otherwise		
		, and appende one more.		
		Pac	e 12 of 14	
		Pag	e 12 of 14	envirotech Inc.
		Pag	e 12 of 14	envirotech Inc.

ilent: Liano Disposal LLC Bill To J Bar Brine Station Attention: Liano Disposal LLC			Bill To Lab Use Only						Only TAT EPA Pro						Page							
ddres	Manager s: PO ate, Zip Lo	Eliza Box 250 vington	beth Pic	kerel		ddress: PO Box 250 Sity, State, Zip Lovington N Phone: 575-605-6490	IM 88260		E 40	SIC		Ana	211 alysis a	nd M	Aetho	d	2D	3D	Standa	ard	CWA	SDWA RCRA
mail:	5/5 service.lla due by:	-oUS-649	@gmail.	<u>com</u>	E	mail: service.llanobrine@g	mail.com	-	DRO/ORO b	8015	170	9	0.00		iravity	NN	, pHin	X	NM	CO U	tate T AZ	TX
time impled 5:35	Date Sampled	Matrix	No. of Containers	Sample	ID	Brine Well	Li Nun	ab nber	TPH GRO,	a trans	VOC PV 82	Metals 60	Chloride 3	Sodium	TDS, Spec. 6	BGDOC	Chlorides Wate	GDOC 1		Re	emarks	
5:40	12/29/23	H	1		-	Fresh Well	1		_	-				x	x		x					
5:42	12/29/23	A	1			Monitor Well	4	2	-	-	-	-	-		x		x					
							~	2			-	-			x	-	x	-	-	-		-
-		-	-				-															
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dition	nal Instruc	tions:	_				_	1	-	-	1	1						_	-		-	_
or time	opler), attest to e of collection ed by: (Sign:	o the validit is consider aturo)	y and auth ed fraud ar	enticity of th id may be gr	is sample. I am ounds for legal a	aware that tampering with or intention action. <u>Sampled by:</u> Elizabet	ally mislabe	lling the	sample	locat	ion,	Samj	ples required pack	viring t ked in i	hermal p ce at an	avg te	vation in mp abor	ust be re 0 bu	eceived on ic less than 6 o	e the day t C on subsc	they are sa Iquent day	impled or
quish	eg by: (Sign:	sture)	Date	41023	1:33pm	Received by (Signature)	Date 12.	29.2	23 /	33	3	Rec	eiver	lon	ice:	La	Use	Onl	'			
Igelishe	ed by Tsigna	ature)	12. Date	31.23	1040 Time	Received by: (Signature)	4 1/2 Date	2/24		30	0	T1	_		_ 1	12	_	_	<u>T3</u>	_	_	-
le Mat	rix: S - Soil, Sd	- Solid, SE	Sludge, A	- Aqueous, G	D - Other		Conta	iner T	VDe: P	, gla		AVC	3 Tem	p o		4						
e abov	ve samples li	s applicabl	e only to	results are hose samp	reported unles les received b	ss other arrangements are made. y the laboratory with this COC. The	Hazardous liability of	sample the lab	es will b	e ret	urned	to cli	ent or	dispe	sed of	at th	glass, ne clier	v - Vo	ense. The	report	for the a	inalysis

Annual Report

## Llano Disposal, LLC BW35 API 30-025-30701

2023

		Envirotech	Analy	ytical	Laborato	ory		Printed: 1/2/2024 9:20:44AN
nstructions:	Please take note of any NO checkmarks.	Sample	Receipt	Check	ist (SRC)			
- we receive	the provide concerning these items within 24 hours	of the date of this not	ice, all the	e samples	will be analyz	ed as requ	ested.	and the second
Client:	Liano Disposai LLC	Date Received:	01/02/24	4 08:00			Work Order ID:	E401001
Phone:	575-605-6490	Date Logged In:	01/02/24	4 09:04			Logged In By:	Alexa Michaels
Email.	service.nanoorne@gmail.com	Due Date:	01/08/24	4 17:00 (4	day TAT)			
Chain of	Custody (COC)							
1. Does th	e sample ID match the COC?		Vec					
2. Does th	e number of samples per sampling site location	match the COC	Vec					
3. Were sa	amples dropped off by client or carrier?		Yes		Carrier Com	ier		
4. Was the	COC complete, i.e., signatures, dates/times, req	uested analyses?	Yes		currer. <u>cour</u>			
5. Were al	I samples received within holding time? Note: Analysis, such as pH which should be conducte	d in the field,	Yes					
Sample T	i.e. 15 minute hold time, are not included in this disuc	ssion.					Comment	s/Resolution
6. Did the	COC indicate standard TAT or Expedited TAT?							
Sample C	ooler		Yes					
7. Was a s	ample cooler received?		Vac					
8. If yes, v	vas cooler received in good condition?		Ves					
9. Was the	sample(s) received intact, i.e., not broken?		Vac					
10. Were c	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 Note: Thermal preservation is not required, if samples	°C, i.e., 6°±2°C are received w/i 15	Yes					
13. If no v	minutes of sampling isible ice, record the temperature. Actual samp	ole temperature: 4°	2					
Sample C	ontainer							
14. Are aq	ueous VOC samples present?		No					
15. Are vo	JC samples collected in VOA Vials?		NA					
17. Was a 1	trin blank (TB) included for VOC and the sized or less)?		NA					
18. Are no	n-VOC samples collected in the correct contains		NA					
19. Is the ap	propriate volume/weight or number of sample cont	siners collected?	No					
Field Labo	el la compre com	amors conceteu:	ies					
20. Were fi	eld sample labels filled out with the minimum ir	formation:						
Sa	mple ID?		Yes					
Co	llectors name?		Yes		_			
Sample Pr	eservation		Yes					
21. Does th	e COC or field labels indicate the samples were	preserved?	No					
22. Are sar	nple(s) correctly preserved?	p	NA					
24. Is lab fi	Iteration required and/or requested for dissolved	metals?	No					
Multiphas	e Sample Matrix		- 191					
26. Does th	e sample have more than one phase, i.e., multipl	nase?	No					
27. 11 yes, c	toes the COC specify which phase(s) is to be ana	lyzed?	NA					
Subcontra	ct Laboratory							
26. Are san	pipes required to get sent to a subcontract laborat	ory?	No					
TTAS & S	account act laboratory specified by the client and	if so who?	NA	Subcont	ract Lab: NA			
	truction							

14	Sa	mple Dat	ta			
Llano Disposal LLC PO Box 250 Lovington NM, 88260	Project Name:       U Bar Brine Station         Project Number:       22117-0001         Project Manager:       Elizabeth Pickerel			<b>Reported:</b> 7/7/2023 2:15:06PM		
	M	onitor Well	-			
	E	306219-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analy	st: KF		D. 1 2225055
otal Dissolved Solids	457	10.0	1	06/29/23	06/29/23	Batch: 2326065
Vet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analy	Analyst: BA		Batab: 2226067
H @25°C	7.90		1	06/29/23 10:39	06/29/23 14:00	H5
Vet Chemistry by SM2710F**	N/A	N/A	Analy	st: KH		D. 1 2227022
pecific Gravity	1.008		1	07/06/23	07/06/23	Batch: 2327022
anions by EPA 300.0/9056A	mg/L	mg/L	Analys	st: BA		
Chloride	89.6	2.00	1	06/29/23	06/29/23	Batch: 2326045

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2023

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

Name

Owner/Permittee Holder Title

Darr Angell Signature

<u>10/28/24</u>

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

### COMMENTS

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

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Action 396114

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

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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

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Action 396114

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

CONDITIONS

# CONDITIONS Created By Condition Condition 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</td> 2/27/2025