



January 29, 2026

**New Mexico Oil Conservation Division**

1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: 2025 Annual Groundwater Monitoring Report**

Cottonwood Recycling Facility  
Eddy County, New Mexico  
DKL Energy – Cottonwood, LLC  
Permit: 2RF-128  
NMOCD Incident No: nAPP2405840050

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of DKL Energy – Cottonwood, LLC (DKL), presents this *2025 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the Cottonwood Recycling Facility (Site) during the year of 2025. The Site is located within Unit N, Section 20, Township 26 South, Range 26 East, in Eddy County, New Mexico (Figure 1). There are currently four monitoring wells onsite, which are gauged for groundwater elevations and sampled quarterly. This report presents the results of the 2025 quarterly monitoring events.

**SITE BACKGROUND**

The Site is a produced water recycling facility permitted by the NMOCD under permit 2RF-128 (Permit). The Site was initially permitted to 3Bear Energy, LLC (3Bear) and is currently operated by DKL after they acquired the asset. The Site is located in at 32.0210483° N, 104.31879°W on privately owned land. In August 2018, four monitoring wells (MW-1 through MW-4) were installed as proposed in the Permit (Figure 2). According to the New Mexico Office of State Engineer (NMOSE) well logs, screen intervals are located at the bottom fifteen feet of each well. Records regarding the historical quarterly sampling events are documented in previous groundwater reports submitted to the NMOCD.

The 2024 Annual Groundwater Monitoring Report was submitted January 28, 2025, via the NMOCD portal. The NMOCD responded with:

*Verify Monitor well total depth of well, screen interval, top of casing elevation, and survey. Historical data shows screen intervals at different depths, well depths(TOC), and drill depth(bgs) to have conflicting data.*

Based on the above response, well characteristics based on the NMOSE well logs are included below:

Well Construction Characteristics				
Well Number	Drilled Depth (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Top of Casing (ft asml)
MW-1	90.0	90.0	75.0-90.0	3463.05
MW-2	59.0	59.0	44.0-59.0	3458.26
MW-3	50.0	50.0	35.0-50.0	3458.33
MW-4	75.0	75.0	60.0-75.0	3459.04

\* bgs= below ground surface

asml= above mean sea level

## GROUNDWATER SAMPLING ACTIVITIES

The sampling notifications for the 2025 sampling events were submitted under nAPP2405840050 (Attachment A). Although this is an Incident Number, it was assigned to facilitate electronic sampling notifications to the NMOCD. The groundwater samples are not collected in response to an incident, but as part of monitoring requirements under permit number 2RF-128.

On the following days, Ensolum personnel measured groundwater levels and collected samples from all four monitoring wells, MW-1 through MW-4.

- First Quarter – March 03, 2025
- Second Quarter –
  - Groundwater levels measured – May 22, 2025
  - Samples collected – June 24, 2025
- Third Quarter – August 27, 2025
- Fourth Quarter – December 04, 2025

Due to sampling equipment malfunction, the second quarter groundwater levels were measured during a different Site visit than the sample collection. All activities were completed within the second quarter.

Static groundwater-level monitoring included recording depth-to-groundwater using an oil/water interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with distilled water prior to each measurement to prevent cross-contamination.

Groundwater from monitoring well MW-1 was purged and sampled using low-flow method. An environmental bladder pump was submerged near the middle of the water column, and groundwater was pumped at a low flow rate using new disposable tubing. Ensolum monitored groundwater quality parameters, including temperature, pH, and electrical conductivity, during the purging process utilizing an Aqua TROLL® 500 multiparameter probe and purged water until these

parameters stabilized. A duplicate sample (DUP-1) was collected from MW-1 during all quarterly monitoring events, with the exception of the third quarter due to sampling error, for laboratory quality assurance and quality control.

Because of low water volume in the wells, groundwater from monitoring wells MW-2 through MW-4 was purged and sampled using disposable bailers to minimize cross contamination. Groundwater was purged from each monitoring well prior to sample collection by removing three casing volumes of water or until the monitoring well purged dry. Water quality parameters were monitored for stabilization.

Following well purging, groundwater samples were placed directly into laboratory-provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Eurofins Laboratory (Eurofins) in Carlsbad, New Mexico, for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United State Environmental Protection Agency (EPA) Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – gasoline range organics (GRO), TPH – diesel range organics (DRO), and TPH - oil range organics (ORO) following EPA Method 8015 and 8015B; and
- Chloride following EPA Method 300.0.

Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

Monitoring well MW-2 did not adequately recharge to obtain sufficient volume for full laboratory analysis. Analysis of BTEX and TPH were omitted during the second quarter and the third quarter for monitoring well MW-2.

## GROUNDWATER MONITORING RESULTS

Measured depths-to-groundwater and calculated groundwater elevations are presented in Table 1. The inferred groundwater flow direction is to the north-northwest, as indicated on the groundwater potentiometric surface maps presented in Figures 3 through 6.

The groundwater analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards for BTEX and chloride as presented in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of the New Mexico Administrative Code (NMAC). There are no standards for TPH. The laboratory analytical results indicate no dissolved BTEX or TPH constituents were detected above the laboratory reporting limit in groundwater samples collected from MW-1, MW-3, MW-4, and the duplicate sample.

Chloride concentrations for all samples collected from MW-1, MW-2, MW-3, and the duplicate sample were below the NMWQCC standard. Chloride concentrations in MW-4 exceeded the NMWQCC standard with concentrations ranging from 16,600 milligrams per liter (mg/L) to 20,100 mg/L. These results are similar to previous analytical results. Analytical results are summarized in Table 2 with complete laboratory analytical reports attached as Attachment B.

## CONCLUSIONS

The groundwater elevations measured during 2025 sampling events appear to be stable, with similar gradient and flow direction as previous sampling events. Laboratory analytical results indicate groundwater collected from monitoring well MW-4 contains concentrations of chloride that exceed the NMWQCC groundwater standard in all quarters. Chloride concentrations are within range of historical sampling results, and MW-4 has contained elevated chloride concentrations throughout the life of the facility. DKL will continue quarterly monitoring during the year 2026.

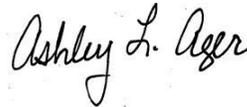
Ensolum appreciates the opportunity to provide this annual report to the NMOCD. Please contact either of the undersigned with any questions.

Sincerely,

### Ensolum, LLC



Tracy Hillard  
Project Manager



Ashley Ager, M.S., P.G. (State of Louisiana)  
Principal

cc: Jason Boothe, DKL

### Attachments:

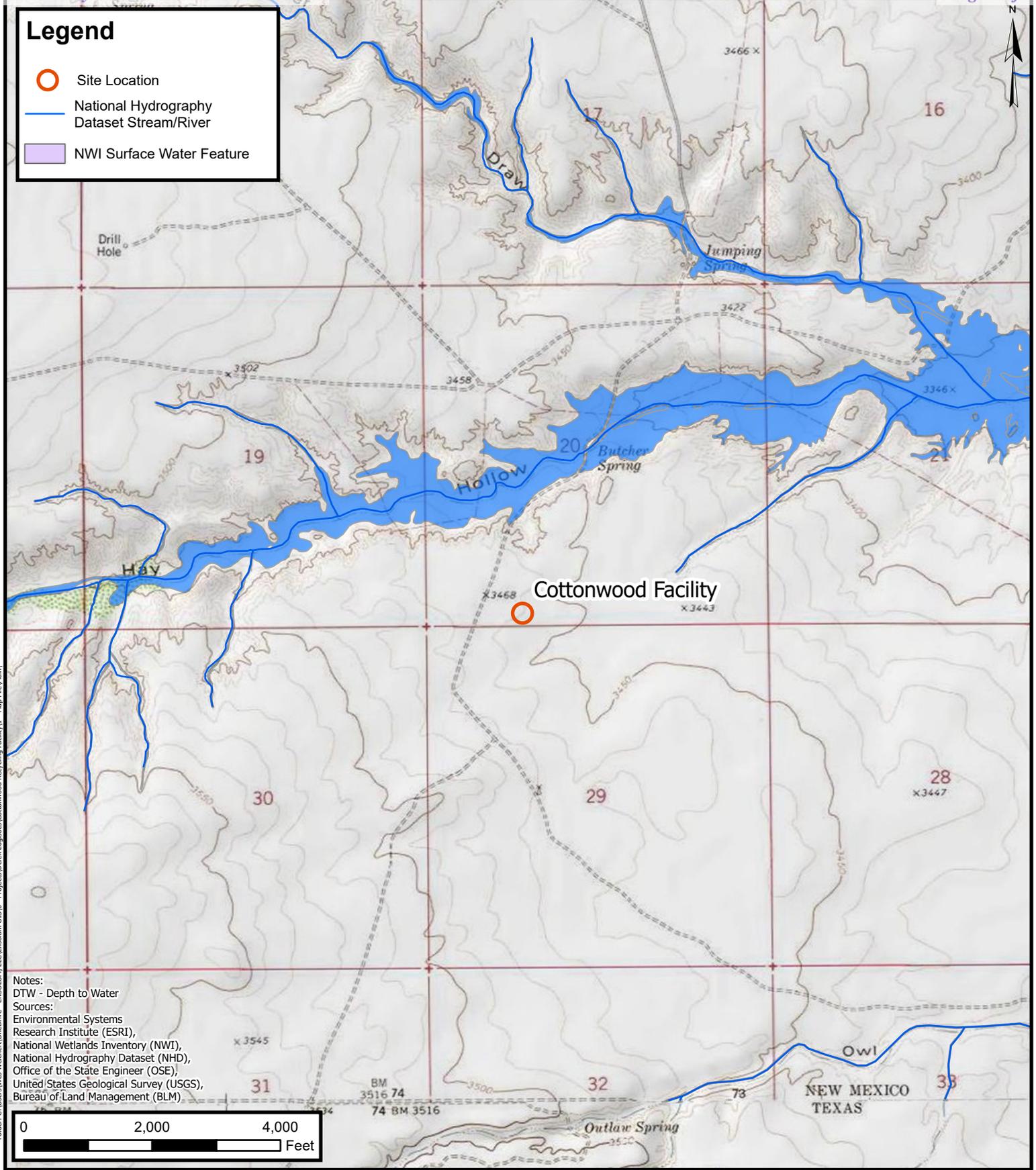
Figure 1: Site Location Map  
Figure 2: Site Map  
Figure 3: Groundwater Potentiometric Surface Map – March 2025  
Figure 4: Groundwater Potentiometric Surface Map – May 2025  
Figure 5: Groundwater Potentiometric Surface Map – August 2025  
Figure 6: Groundwater Potentiometric Surface Map – December 2025

Table 1: Groundwater Elevations  
Table 2: Groundwater Analytical Results

Attachment A: NMOCD Notifications  
Attachment B: Laboratory Analytical Report



FIGURES



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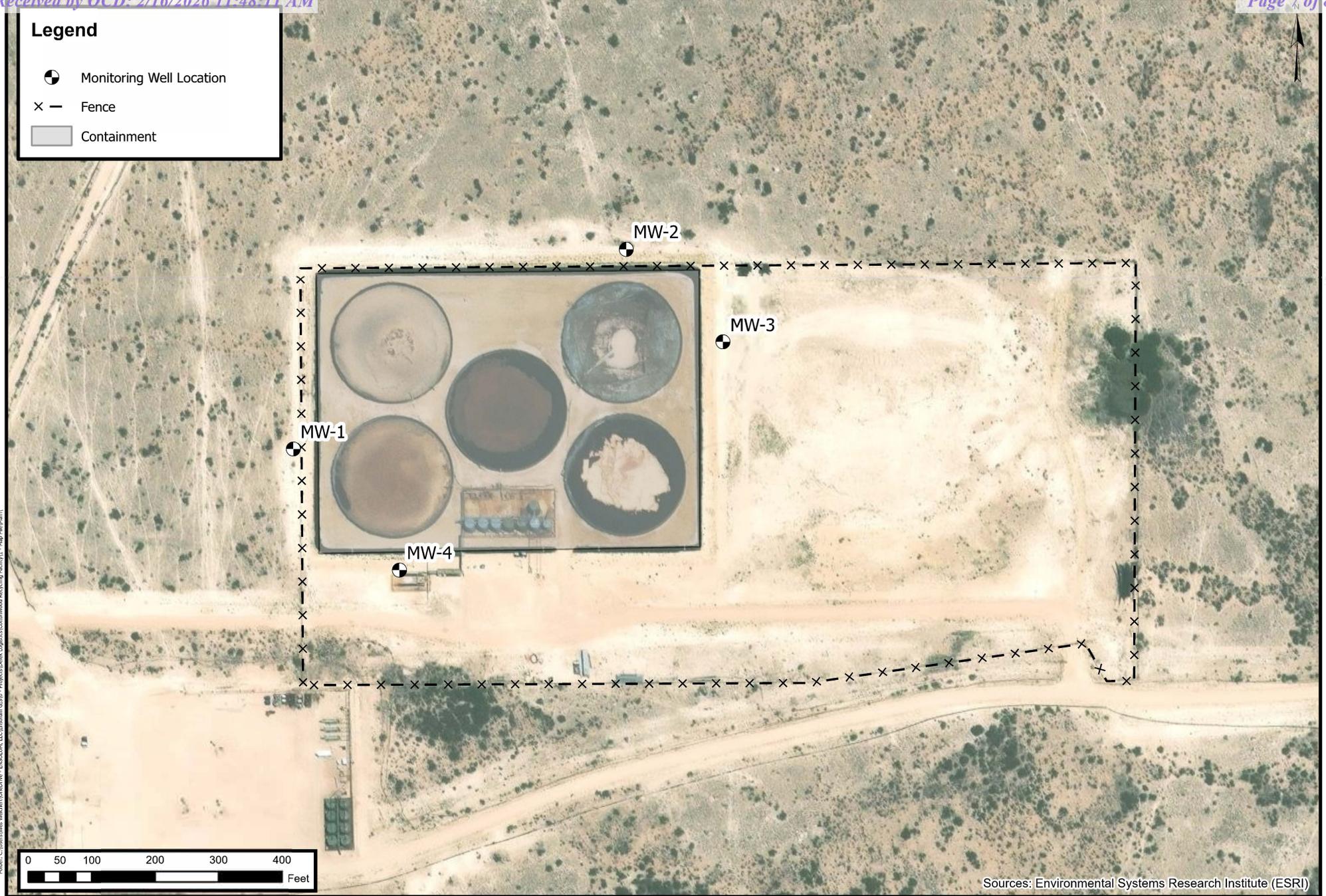


**Site Location Map**  
 DKL Energy - Cottonwood, LLC  
 Cottonwood Recycling Facility  
 32.0210483, -104.31879  
 Unit N, Sec 20, T26S, R26E  
 Eddy County, New Mexico, United States

**FIGURE**  
 1

**Legend**

-  Monitoring Well Location
-  Fence
-  Containment



Folder: C:\Users\Wes\OneDrive - ENSOLUM, LLC\Documents\GIS - Projects\DKL Logistics\Cottonwood Recycling Facility\1 - Map (10/16/2015)

Sources: Environmental Systems Research Institute (ESRI)

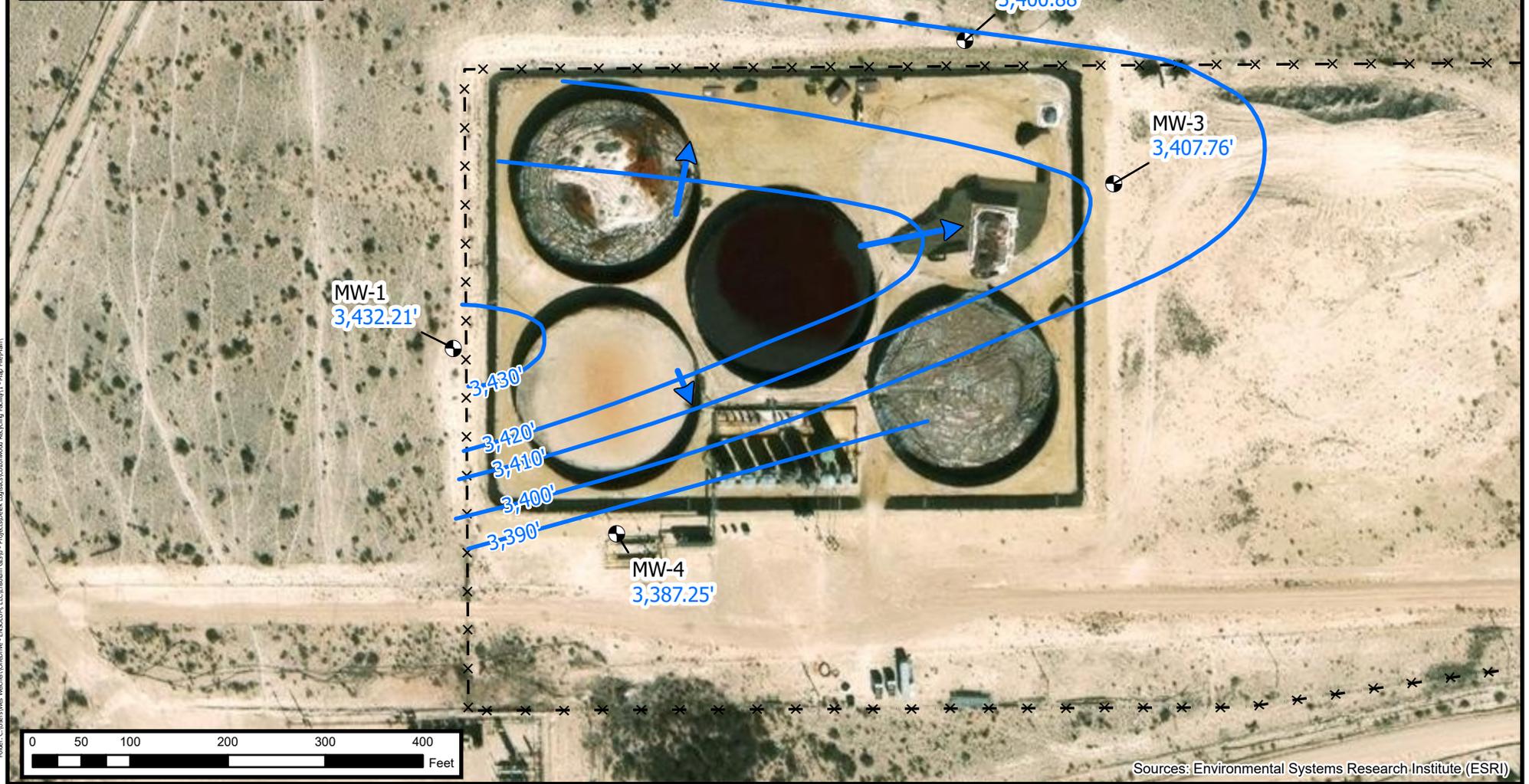


**Site Map**  
 DKL Energy - Cottonwood, LLC  
 Cottonwood Recycling Facility  
 32.0210483, -104.31879  
 Unit N, Sec 20, T26S, R26E  
 Eddy County, New Mexico, United States

**FIGURE**  
**2**

**Legend**

-  Monitoring Well Location
-  Fence
-  Groundwater Flow Direction
-  Groundwater Potentiometric Surface Elevation Contour (March 3, 2025)



Folder: C:\Users\Wes.Wehner\OneDrive - ENSOLUM, LLC\Desktop\GIS - Project\Bak Logistics\Cottonwood Recycling Facility\1 - Map (Rev1).mxd

Sources: Environmental Systems Research Institute (ESRI)



**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

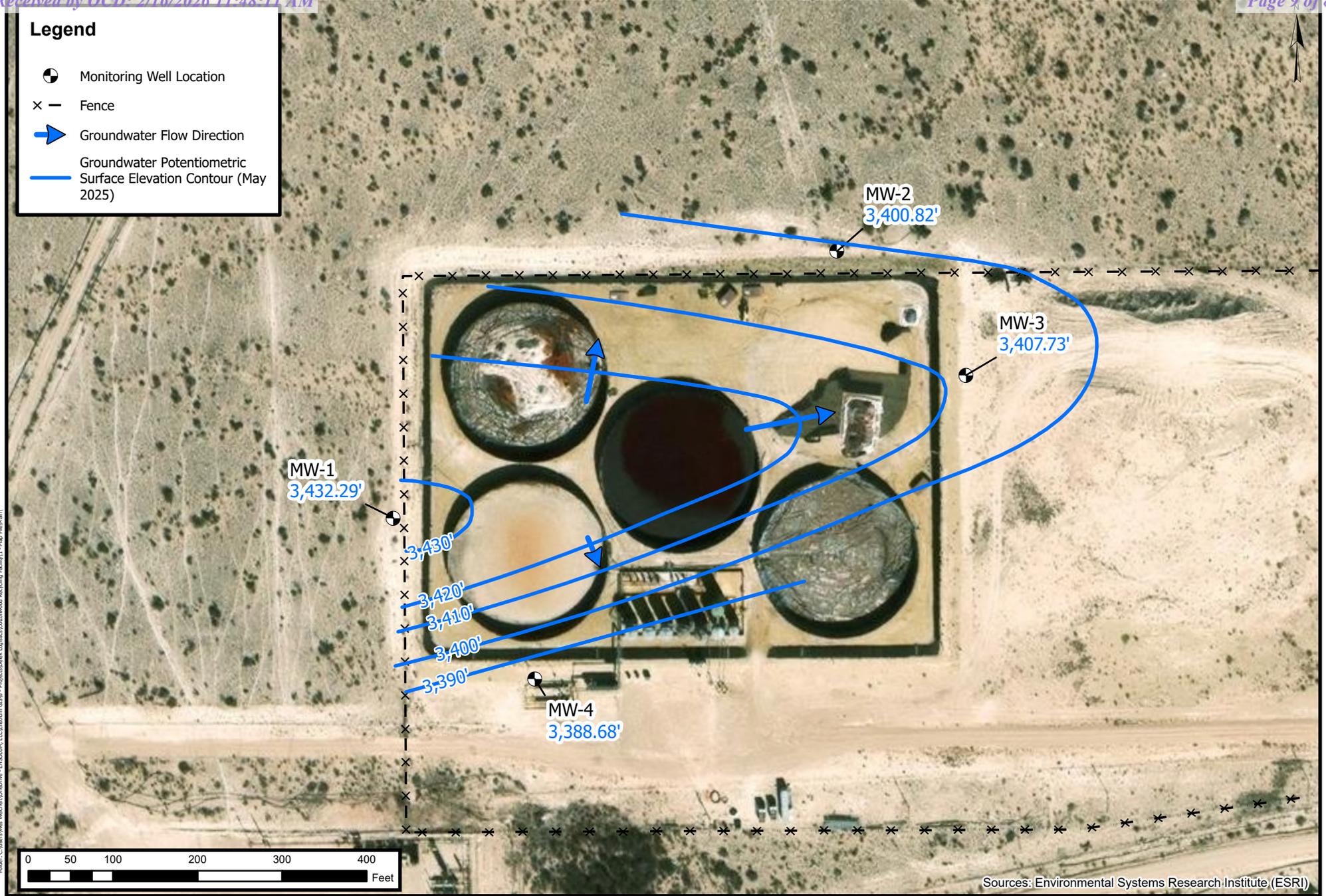
**Groundwater Potentiometric Surface Map - March 2025**

DKL Energy - Cottonwood, LLC  
Cottonwood Recycling Facility  
32.0210483, -104.31879  
Unit N, Sec 20, T26S, R26E  
Eddy County, New Mexico, United States

**FIGURE  
3**

**Legend**

-  Monitoring Well Location
-  Fence
-  Groundwater Flow Direction
-  Groundwater Potentiometric Surface Elevation Contour (May 2025)



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Sources: Environmental Systems Research Institute (ESRI)



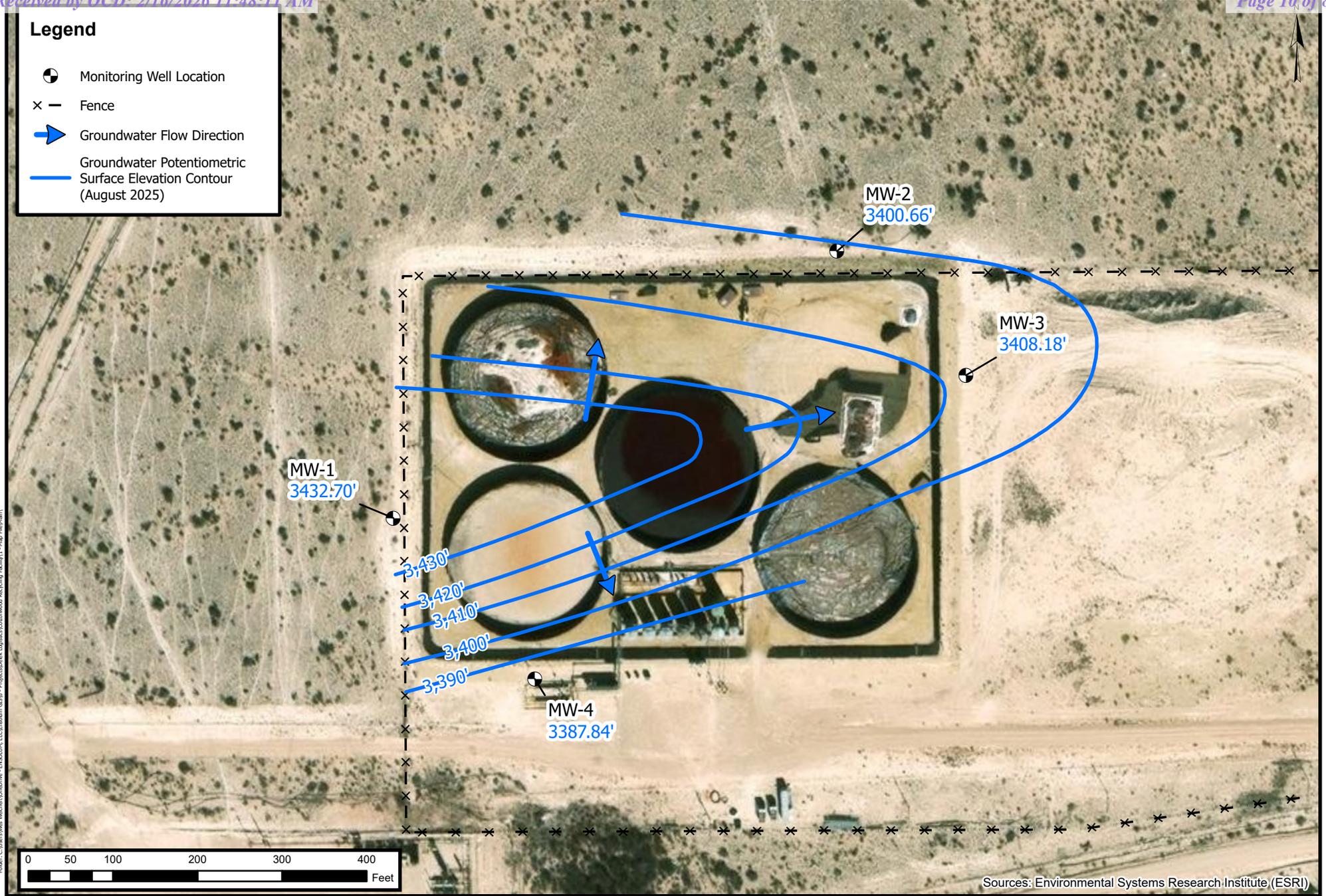
### Groundwater Potentiometric Surface Map - May 2025

DKL Energy - Cottonwood, LLC  
 Cottonwood Recycling Facility  
 32.0210483, -104.31879  
 Unit N, Sec 20, T26S, R26E  
 Eddy County, New Mexico, United States

**FIGURE 4**

**Legend**

-  Monitoring Well Location
-  Fence
-  Groundwater Flow Direction
-  Groundwater Potentiometric Surface Elevation Contour (August 2025)



Folder: C:\Users\Wes.Weston\OneDrive - ENSOLUM, LLC\Desktop\GIS - Project\Bak Logistics\Cottonwood Recycling Facility 1 - Map (Rev10.mxd)

Sources: Environmental Systems Research Institute (ESRI)



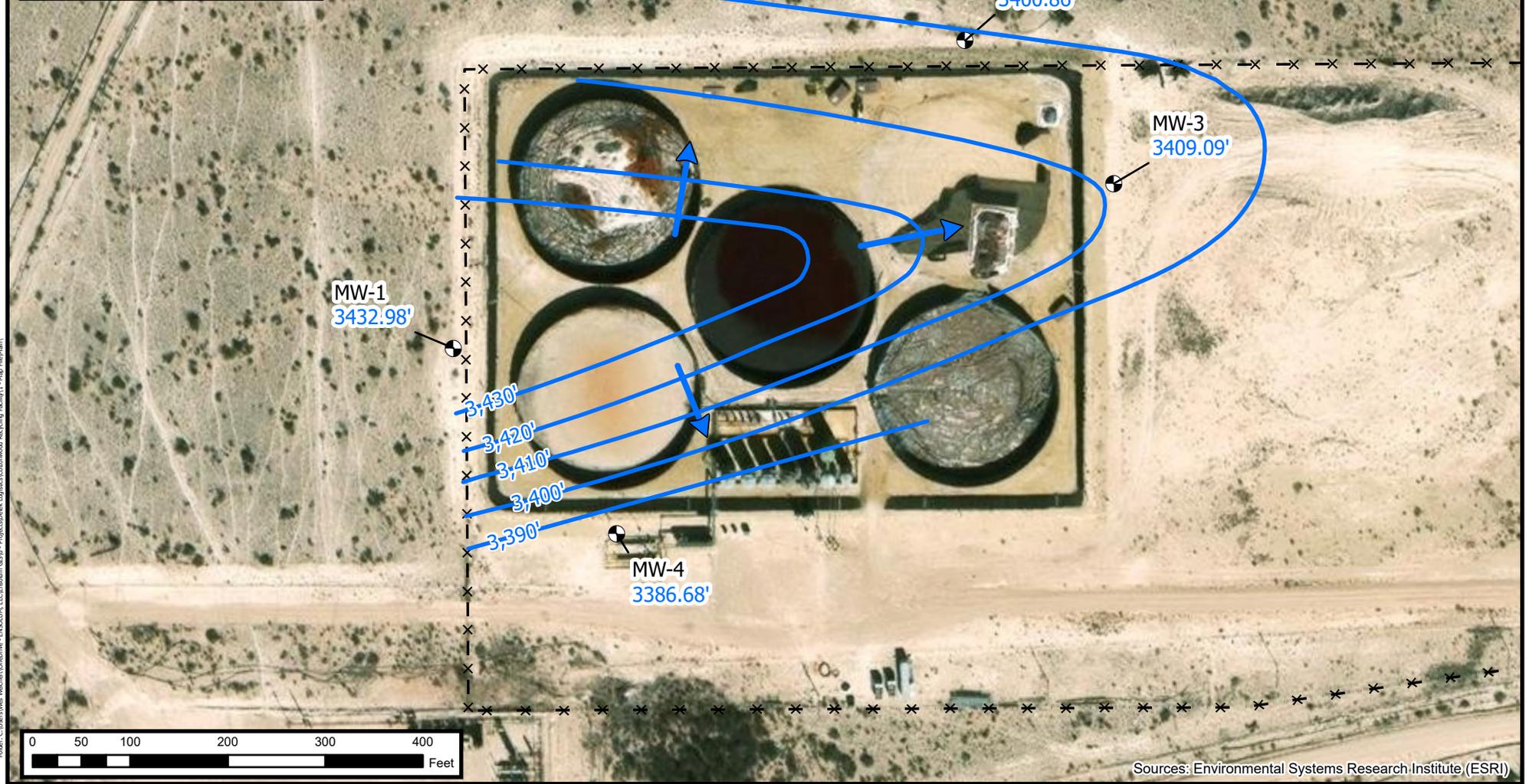
### Groundwater Potentiometric Surface Map - August 2025

DKL Energy - Cottonwood, LLC  
 Cottonwood Recycling Facility  
 32.0210483, -104.31879  
 Unit N, Sec 20, T26S, R26E  
 Eddy County, New Mexico, United States

**FIGURE 5**

**Legend**

-  Monitoring Well Location
-  Fence
-  Groundwater Flow Direction
-  Groundwater Potentiometric Surface Elevation Contour (December 4, 2025)



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Sources: Environmental Systems Research Institute (ESRI)



**Groundwater Potentiometric Surface Map - December 4, 2025**

DKL Energy - Cottonwood, LLC  
 Cottonwood Recycling Facility  
 32.0210483, -104.31879  
 Unit N, Sec 20, T26S, R26E  
 Eddy County, New Mexico, United States

**FIGURE  
6**



TABLES



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Date	Well Top of Casing Elevation (feet AMSL)	Depth to Water (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-1	09/25/2018	3,463.05	31.85	3,431.20
	11/13/2018		31.81	3,431.24
	12/12/2018		31.69	3,431.36
	01/29/2019		32.62	3,430.43
	05/15/2019		32.50	3,430.55
	09/12/2019		31.51	3,431.54
	09/20/2019		32.40	3,430.65
	12/04/2019		31.73	3,431.32
	02/18/2020		31.50	3,431.55
	05/07/2020		31.72	3,431.33
	08/13/2020		31.82	3,431.23
	10/06/2020		31.89	3,431.16
	01/05/2021		31.47	3,431.58
	04/29/2021		31.45	3,431.60
	06/25/2021		31.84	3,431.21
	09/01/2021		31.31	3,431.74
	11/18/2021		31.48	3,431.57
	02/24/2022		31.40	3,431.65
	05/19/2022		30.74	3,432.31
	09/23/2022		31.02	3,432.03
	12/13/2022		30.42	3,432.63
	03/16/2023		31.62	3,431.43
	06/08/2023		31.02	3,432.03
	09/12/2023		30.99	3,432.06
	12/18/2023		31.06	3,431.99
03/26/2024	30.72	3,432.33		
06/25/2024	30.83	3,432.22		
09/10/2024	31.15	3,431.90		
12/04/2024	31.21	3,431.84		
03/03/2025	30.84	3,432.21		
05/22/2025	30.76	3,432.29		
08/27/2025	30.35	3,432.70		
12/04/2025	30.07	3,432.98		



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Date	Well Top of Casing Elevation (feet AMSL)	Depth to Water (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-2	09/25/2018	3,458.26	Dry	-
	11/13/2018		Dry	-
	12/12/2018		42.52	3,415.74
	01/29/2019		42.07	3,416.19
	05/15/2019		42.70	3,415.56
	09/12/2019		43.98	3,414.28
	09/20/2019		44.78	3,413.48
	12/04/2019		45.01	3,413.25
	02/18/2020		45.10	3,413.16
	05/07/2020		49.30	3,408.96
	08/13/2020		51.69	3,406.57
	10/06/2020		52.00	3,406.26
	01/05/2021		52.21	3,406.05
	04/29/2021		54.75	3,403.51
	09/01/2021		56.93	3,401.33
	11/18/2021		57.94	3,400.32
	02/24/2022		56.88	3,401.38
	05/19/2022		56.93	3,401.33
	09/23/2022		56.44	3,401.82
	12/13/2022		56.62	3,401.64
	03/16/2023		56.32	3,401.94
	06/08/2023		56.71	3,401.55
	09/12/2023		56.84	3,401.42
12/18/2023	56.89	3,401.37		
03/26/2024	56.89	3,401.37		
06/25/2024	57.10	3,401.16		
09/10/2024	57.42	3,400.84		
12/04/2024	57.45	3,400.81		
03/03/2025	57.38	3,400.88		
05/22/2025	57.44	3,400.82		
08/27/2025	57.60	3,400.66		
12/04/2025	57.40	3,400.86		



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Date	Well Top of Casing Elevation (feet AMSL)	Depth to Water (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-3	09/25/2018	3,458.33	43.55	3,414.78
	11/13/2018		42.65	3,415.68
	12/12/2018		42.16	3,416.17
	01/29/2019		41.85	3,416.48
	05/15/2019		42.61	3,415.72
	09/12/2019		44.30	3,414.03
	09/20/2019		44.10	3,414.23
	12/04/2019		44.83	3,413.50
	02/18/2020		45.60	3,412.73
	05/07/2020		45.68	3,412.65
	08/13/2020		45.64	3,412.69
	10/06/2020		46.19	3,412.14
	01/05/2021		46.66	3,411.67
	04/29/2021		Dry	-
	09/01/2021		47.59	3,410.74
	11/18/2021		46.98	3,411.35
	02/24/2022		45.85	3,412.48
	05/19/2022		47.88	3,410.45
	09/23/2022		47.76	3,410.57
	12/13/2022		46.51	3,411.82
	03/16/2023		48.11	3,410.22
	06/08/2023		46.45	3,411.88
	09/12/2023		48.97	3,409.36
	12/18/2023		47.29	3,411.04
	03/26/2024		47.38	3,410.95
06/25/2024	48.83	3,409.50		
09/10/2024	49.91	3,408.42		
12/04/2024	49.83	3,408.50		
03/03/2025	50.57	3,407.76		
05/22/2025	49.60	3,408.73		
08/27/2025	50.15	3,408.18		
12/04/2025	49.24	3,409.09		



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Date	Well Top of Casing Elevation (feet AMSL)	Depth to Water (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-4	09/25/2018	3,459.04	Dry	-
	11/13/2018		Dry	-
	12/12/2018		74.36	3,384.68
	01/29/2019		71.34	3,387.70
	05/15/2019		71.50	3,387.54
	09/12/2019		67.38	3,391.66
	09/20/2019		71.41	3,387.63
	12/04/2019		66.31	3,392.73
	02/18/2020		71.80	3,387.24
	05/07/2020		72.20	3,386.84
	08/13/2020		70.10	3,388.94
	10/06/2020		68.09	3,390.95
	01/05/2021		68.88	3,390.16
	04/29/2021		70.14	3,388.90
	06/25/2021		69.92	3,389.12
	09/01/2021		72.55	3,386.49
	11/18/2021		71.61	3,387.43
	02/24/2022		70.05	3,388.99
	05/19/2022		68.82	3,390.22
	09/23/2022		67.95	3,391.09
	12/13/2022		68.58	3,390.46
	03/16/2023		71.71	3,387.33
	06/08/2023		71.29	3,387.75
	09/12/2023		70.27	3,388.77
	12/18/2023		70.21	3,388.83
03/26/2024	69.76	3,389.28		
06/25/2024	71.57	3,387.47		
09/10/2024	72.08	3,386.96		
12/04/2024	73.22	3,385.82		
03/03/2025	71.79	3,387.25		
05/22/2025	70.36	3,388.68		
08/27/2025	71.20	3,387.84		
12/04/2025	72.36	3,386.68		

**Notes:**  
 BTOC - below top of casing      AMSL - above mean sea level



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)	TPH (mg/L)	Chloride (mg/L)
<b>NMWQCC Standard</b>		<b>0.00500</b>	<b>0.700</b>	<b>1.00</b>	<b>0.620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>250</b>
<b>MW-1</b>	09/25/2018	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.556	<0.556	<0.556	<0.556	210
	11/13/2018	0.00124	<0.00200	<0.00200	<0.00200	0.00124	<0.527	<0.527	<0.527	<0.527	<b>1,220</b>
	12/12/2018	0.00130	<0.00200	<0.00200	<0.00200	0.00130	<0.537	<0.537	<0.537	<0.537	<b>677</b>
	01/29/2019	0.00489	<0.00400	<0.00400	<0.00400	0.00489	<0.0600	<0.0789	<0.0789	<0.0789	<b>1,750</b>
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0749	<0.0749	<0.0749	214
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0730	<0.0730	<0.0730	248
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0739	<0.0739	<0.0739	224
	02/18/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0772	<0.0772	<0.0772	214
	05/07/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0787	<0.0787	<0.0787	246
	08/13/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	0.107	<0.0758	0.107	228
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0782	<0.0782	<0.0782	218
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0785	<0.0785	<0.0785	192
	04/29/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	2.33	0.78	3.11	201
	06/25/2021	-	-	-	-	-	<0.0600	<0.0790	<0.0790	<0.0790	-
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.149	<0.149	<0.149	202
	11/18/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0836	<0.0836	<0.0836	182
	02/24/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0789	<0.0789	<0.0789	228
	05/19/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0787	<0.0787	<0.0787	194
	09/23/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0742	<0.0742	<0.0742	195
	12/13/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	0.184	<0.0988	0.184	196
	03/16/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0778	<0.0778	<0.0778	<b>275</b>
	06/08/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.0600	<0.0748	<0.0748	<0.0748	180
	09/12/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.0600	<0.0760	<0.0760	<0.0760	183
12/18/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0759	<0.0759	<0.0759	187	
03/26/2024	<0.00200	<0.00200	<0.00200	0.000788	0.000788	<5.17	<5.17	<5.17	<5.17	<b>313</b>	
06/25/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.901	<0.901	<0.869	<0.901	238	
09/10/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.972	<0.972	<0.938	<0.972	214	
12/04/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.988	1.65	<0.954	1.65	190	
03/03/2025	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.988	<0.988	<0.954	<0.988	176	
06/24/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	188	
08/27/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	184	
12/04/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	184	



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)	TPH (mg/L)	Chloride (mg/L)
<b>NMWQCC Standard</b>		<b>0.00500</b>	<b>0.700</b>	<b>1.00</b>	<b>0.620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>250</b>
<b>MW-2</b>	09/25/2018	-	-	-	-	-	-	-	-	-	-
	11/13/2018	-	-	-	-	-	-	-	-	-	-
	01/29/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0767	<0.0767	<0.0767	136
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0744	<0.0744	<0.2088	106
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0748	<0.0748	<0.2096	117
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0751	<0.0751	<0.2102	105
	02/18/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0766	<0.0766	<0.2132	120
	05/07/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.0600	<0.0823	<0.0823	<0.2246	121
	08/13/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.0600	<0.0841	<0.0841	<0.2282	124
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0789	<0.0789	<0.2178	137
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0874	<0.0874	<0.2348	130
	04/29/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0946	<0.0946	<0.2492	132
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.150	<0.150	<0.360	142
	11/18&22/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.00600	1.07	<0.494	1.07	149
	02/24/2022	-	-	-	-	-	-	-	-	-	-
	05/19/2022	-	-	-	-	-	-	-	-	-	-
	09/23/2022	-	-	-	-	-	-	-	-	-	-
	12/13/2022	-	-	-	-	-	-	-	-	-	-
	03/16/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0808	<0.0808	<0.0808	128
	06/08/2023	-	-	-	-	-	-	-	-	-	128
09/12/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	-	-	-	-	134	
12/18/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	-	-	-	-	133	
03/26/2024	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<5.34	<5.34	<5.34	<5.34	162	
06/25/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.988	<0.988	<0.954	<0.988	128	
09/10/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<1.00	<1.00	<0.966	<1.00	-	
12/04/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	-	-	-	-	130	
03/03/2025	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.972	<0.972	<0.938	<0.972	218	
06/24/2025	-	-	-	-	-	-	-	-	-	129	
08/27/2025	-	-	-	-	-	-	-	-	-	136	
12/04/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	128	



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)	TPH (mg/L)	Chloride (mg/L)
<b>NMWQCC Standard</b>		<b>0.00500</b>	<b>0.700</b>	<b>1.00</b>	<b>0.620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>250</b>
<b>MW-3</b>	09/25/2018	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.554	<0.554	<0.554	<0.554	101
	11/13/2018	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.574	<0.574	<0.574	<0.574	103
	01/29/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0780	<0.0780	<0.0780	140
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0758	<0.0758	<0.2116	121
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0737	<0.0737	<0.2074	130
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0752	<0.0752	<0.2104	111
	02/18/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.0600	<0.0794	<0.0794	<0.2188	120
	05/07/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.0600	<0.0997	<0.0997	<0.2594	<b>305</b>
	08/13/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0822	<0.0822	<0.2244	125
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0787	<0.0787	<0.2174	111
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0858	<0.0858	<0.2316	112
	04/29/2021	-	-	-	-	-	-	-	-	-	-
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.150	<0.150	<0.360	123
	11/18/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0878	<0.0878	<0.0878	120
	02/24/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0783	<0.0783	<0.0783	147
	05/19/2022	-	-	-	-	-	-	-	-	-	-
	09/23/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0880	<0.0880	<0.0880	146
	12/13/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.104	<0.104	<0.104	169
	03/16/2023	-	-	-	-	-	-	-	-	-	-
	06/08/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0767	<0.0767	<0.0767	165
09/12/2023	-	-	-	-	-	-	-	-	-	-	
12/18/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.0766	<0.0766	<0.0766	175	
03/26/2024	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<5.21	<5.21	<5.21	<5.21	217	
06/25/2024	-	-	-	-	-	-	-	-	-	-	
09/10/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.953	<0.953	<0.920	<0.953	178	
12/04/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<1.00	<1.00	<0.970	<1.00	194	
03/03/2025	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.985	<0.985	<0.950	<0.985	139	
06/24/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	184	
08/27/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	176	
12/04/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	168	



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)	TPH (mg/L)	Chloride (mg/L)
<b>NMWQCC Standard</b>		<b>0.00500</b>	<b>0.700</b>	<b>1.00</b>	<b>0.620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>250</b>
<b>MW-4</b>	09/25/2018	-	-	-	-	-	-	-	-	-	-
	11/13/2018	-	-	-	-	-	-	-	-	-	-
	01/29/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	0.216	<0.110	0.216	<b>22,300</b>
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.762	<0.762	<0.2114	<b>22,900</b>
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.741	<0.741	<0.082	<b>26,000</b>
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.600	<0.752	<0.752	<2.104	<b>24,400</b>
	02/18/2020	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	<0.577	<0.577	<1.754	<b>25,800</b>
	05/07/2020	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	<0.110	<0.110	<0.820	<b>25,400</b>
	08/13/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.00800	<0.600	0.137	<0.0566	0.137	<b>19,800</b>
	10/06/2020	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	0.251	<0.0790	0.251	<b>21,000</b>
	01/05/2021	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	0.126	<0.0880	0.126	<b>16,200</b>
	04/29/2021	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	0.377	<0.0906	0.377	<b>16,100</b>
	06/25/2021	-	-	-	-	-	<0.600	<0.0900	<0.0900	<0.2400	-
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.000800	<0.0600	<0.149	<0.149	<0.358	<b>23,600</b>
	11/18/2021	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	0.118	<0.0840	0.118	<b>17,500</b>
	02/24/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.0600	<0.0853	<0.0853	<0.0853	<b>20,400</b>
	05/19/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.0600	0.264	<0.0787	0.264	<b>13,400</b>
	09/23/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.0600	0.272	<0.0745	0.272	<b>19,300</b>
	12/13/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	<0.106	<0.106	<0.106	<b>21,900</b>
	03/16/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	0.167	<0.0935	0.167	<b>23,600</b>
	06/08/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.600	<0.0820	<0.0820	<0.600	<b>15,500</b>
	09/12/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.0600	0.144	<0.0867	0.144	<b>17,800</b>
	12/18/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.00800	<0.0600	<0.0746	<0.0746	<0.0746	<b>20,200</b>
03/26/2024	0.000561	<0.00200	<0.00200	<0.00400	<0.00400	<5.26	<5.26	<5.26	<5.26	<b>18,700</b>	
06/25/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.969	<0.969	<0.935	<0.969	<b>16,000</b>	
09/10/2024	0.000600	<0.000385	<0.000475	<0.00124	<0.00124	<0.969	<0.969	<0.935	<0.969	<b>20,200</b>	
12/04/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.985	<0.985	<0.950	<0.985	<b>17,600</b>	
03/03/2025	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.956	<0.956	<0.923	<0.956	<b>20,100</b>	
06/24/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	<b>20,000</b>	
08/27/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	<b>18,600</b>	
12/04/2025	0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	<b>16,600</b>	



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
 Cottonwood Recycling Facility  
 DKL Energy - Cottonwood, LLC  
 Eddy County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH ORO (mg/L)	TPH (mg/L)	Chloride (mg/L)
<b>NMWQCC Standard</b>		<b>0.00500</b>	<b>0.700</b>	<b>1.00</b>	<b>0.620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>250</b>
<b>Dup-1 (MW-1)</b>	02/18/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0802	<0.0802	<0.2204	210
	05/07/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0800	<0.0800	<0.2200	221
	08/13/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0747	<0.0747	<0.2094	213
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0785	<0.0785	<0.2170	196
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0751	<0.0751	<0.2102	194
	04/29/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0918	<0.0918	<0.2436	199
	06/25/2021	-	-	-	-	-	<0.0600	<0.0775	<0.0775	<0.2150	-
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.1490	<0.1490	<0.898	204
	11/18/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0816	<0.0816	<0.0816	183
	02/24/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0832	<0.0832	<0.0832	198
	05/19/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0786	<0.0786	<0.0786	236
	09/23/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0768	<0.0768	<0.0768	194
	12/13/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	0.128	<0.0997	0.128	196
	03/20/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0759	<0.0759	<0.0759	<b>280</b>
	06/08/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0764	<0.0764	<0.0764	177
	09/12/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.00200	<0.0600	<0.0780	<0.0780	<0.0780	184
	03/26/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.00400	<4.98	<4.98	<4.98	<4.98	<b>280</b>
	06/25/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.953	<0.953	<0.920	<0.953	<b>259</b>
09/10/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<0.978	<0.978	<0.944	<0.978	215	
12/04/2024	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<1.03	<1.03	<0.997	<1.03	192	
03/03/2025	<0.000460	<0.000385	<0.000475	<0.00124	<0.00124	<1.02	<1.02	<0.980	<1.02	174	
06/24/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	188	
12/04/2025	<0.001	<0.001	<0.001	<0.003	<0.006	<1.00	<1.00	<1.00	<1.00	188	

**Notes:**  
 NMWQCC - New Mexico Water Quality Control Commission  
 Concentrations in **bold** exceed the NMWQCC standards  
 mg/L: milligrams per liter  
 NE: not established  
 -: not analyzed



ATTACHMENT A  
NMOCD Notifications

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## OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

### [NOTIFY] Notification Of Sampling (C-141N) Application

#### Submission Information

<b>Submission ID:</b>	436493	<b>Districts:</b>	Artesia
<b>Operator:</b>	<a href="#">[330291]</a> DKL Energy - Cottonwood, LLC	<b>Counties:</b>	Eddy
<b>Description:</b>	DKL Energy - Cottonwood, LLC [330291] , DKL energy-Cottonwood Facility , nAPP2405840050		
<b>Status:</b>	Approved		
<b>Status Date:</b>	02/27/2025		
<b>References (0):</b>			

#### Foms

This application type does not have attachments.

#### Questions

##### Prerequisites

Incident ID (n#)	nAPP2405840050
Incident Name	NAPP2405840050 DKL ENERGY-COTTONWOOD FACILITY GW @ 0
Incident Type	Other
Incident Status	Notification Accepted

##### Location of Release Source

Site Name	DKL energy-Cottonwood Facility
Date Release Discovered	02/27/2024
Surface Owner	Private

##### Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/03/2025
Time sampling will commence	09:30 AM
<b>Warning: Notification can not be less than two business days prior to conducting final sampling.</b>	
Please provide any information necessary for observers to contact samplers	Groundwater sampling per 19.15.30.148 NMAC
Please provide any information necessary for navigation to sampling site	A-20-26S-26E 0 FNL 0 FEL (32.02104,-104.31879)

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

### Comments

No comments found for this submission.

### Conditions

**Summary:** *jasonbooth* (2/27/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

### Reasons

No reasons found for this submission.

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## OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

### [NOTIFY] Notification Of Sampling (C-141N) Application

#### Submission Information

<b>Submission ID:</b>	477496	<b>Districts:</b>	Artesia
<b>Operator:</b>	<a href="#">[330291]</a> DKL Energy - Cottonwood, LLC	<b>Counties:</b>	Eddy
<b>Description:</b>	DKL Energy - Cottonwood, LLC [330291] , DKL ENERGY-COTTONWOOD FACILITY GW , nAPP2405840050		
<b>Status:</b>	Approved		
<b>Status Date:</b>	06/20/2025		
<b>References (0):</b>			

#### Foms

This application type does not have attachments.

#### Questions

##### Prerequisites

Incident ID (n#)	nAPP2405840050
Incident Name	NAPP2405840050 DKL ENERGY-COTTONWOOD FACILITY GW @ 0
Incident Type	Other
Incident Status	Notification Accepted

##### Location of Release Source

Site Name	DKL ENERGY-COTTONWOOD FACILITY GW
Date Release Discovered	02/27/2024
Surface Owner	Private

##### Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/24/2025
Time sampling will commence	08:30 AM
<b>Warning: Notification can not be less than two business days prior to conducting final sampling.</b>	
Please provide any information necessary for observers to contact samplers	Groundwater sampling per 19.15.30.148 NMAC
Please provide any information necessary for navigation to sampling site	A-20-26S-26E 0 FNL 0 FEL (32.02104,-104.31879)

**Comments**

No comments found for this submission.

**Conditions**

**Summary:**

*jasonbooth* (6/20/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

*jasonbooth* (6/20/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

**Reasons**

No reasons found for this submission.

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## OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

### [NOTIFY] Notification Of Sampling (C-141N) Application

#### Submission Information

Submission ID:	498696	Districts:	Artesia
Operator:	<a href="#">[330291]</a> DKL Energy - Cottonwood, LLC	Counties:	Eddy
Description:	DKL Energy - Cottonwood, LLC [330291] , DKL ENERGY-COTTONWOOD FACILITY GW , nAPP2405840050		
Status:	Approved		
Status Date:	08/25/2025		
References (0):			

#### Foms

This application type does not have attachments.

#### Questions

##### Prerequisites

Incident ID (n#)	nAPP2405840050
Incident Name	NAPP2405840050 DKL ENERGY-COTTONWOOD FACILITY GW @ 0
Incident Type	Other
Incident Status	Notification Accepted

##### Location of Release Source

Site Name	DKL ENERGY-COTTONWOOD FACILITY GW
Date Release Discovered	02/27/2024
Surface Owner	Private

##### Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2025
Time sampling will commence	08:30 AM
<b>Warning: Notification can not be less than two business days prior to conducting final sampling.</b>	
Please provide any information necessary for observers to contact samplers	Groundwater sampling per 19.15.30.148 NMAC
Please provide any information necessary for navigation to sampling site	A-20-26S-26E 0 FNL 0 FEL (32.02104,-104.31879)

**Comments**

No comments found for this submission.

**Conditions**

**Summary:**

*jasonbooth* (8/25/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

*jasonbooth* (8/25/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

**Reasons**

No reasons found for this submission.

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## OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

### [NOTIFY] Notification Of Sampling (C-141N) Application

#### Submission Information

<b>Submission ID:</b>	530516	<b>Districts:</b>	Artesia
<b>Operator:</b>	<a href="#">[330291]</a> DKL Energy - Cottonwood, LLC	<b>Counties:</b>	Eddy
<b>Description:</b>	DKL Energy - Cottonwood, LLC [330291] , DKL ENERGY-COTTONWOOD FACILITY GW , nAPP2405840050		
<b>Status:</b>	Approved		
<b>Status Date:</b>	12/01/2025		
<b>References (0):</b>			

#### Foms

This application type does not have attachments.

#### Questions

##### Prerequisites

Incident ID (n#)	nAPP2405840050
Incident Name	NAPP2405840050 DKL ENERGY-COTTONWOOD FACILITY GW @ 0
Incident Type	Other
Incident Status	Notification Accepted

##### Location of Release Source

Site Name	DKL ENERGY-COTTONWOOD FACILITY GW
Date Release Discovered	02/27/2024
Surface Owner	Private

##### Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/04/2025
Time sampling will commence	09:23 AM
<b>Warning: Notification can not be less than two business days prior to conducting final sampling.</b>	
Please provide any information necessary for observers to contact samplers	Groundwater sampling per 19.15.30.148 NMAC
Please provide any information necessary for navigation to sampling site	A-20-26S-26E 0 FNL 0 FEL (32.02104,-104.31879)

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### Comments

No comments found for this submission.

---

### Conditions

**Summary:**

*jasonbooth* (12/1/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

*jasonbooth* (12/1/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

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### Reasons

No reasons found for this submission.

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## ATTACHMENT B

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tracy Hillard  
 Ensolum  
 601 N. Marienfeld St.  
 Suite 400  
 Midland, Texas 79701  
 Generated 3/11/2025 5:18:45 PM

## JOB DESCRIPTION

Cotton Recycling facility  
 03C2466002

## JOB NUMBER

890-7743-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
3/11/2025 5:18:45 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

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Client: Ensolum  
Project/Site: Cotton Recycling facility

Laboratory Job ID: 890-7743-1  
SDG: 03C2466002

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

## Qualifiers

## GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

# Case Narrative

Client: Ensolum  
Project: Cotton Recycling facility

Job ID: 890-7743-1

**Job ID: 890-7743-1**

**Eurofins Carlsbad**

## Job Narrative 890-7743-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

### Receipt

The samples were received on 3/3/2025 3:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

### GC/MS VOA

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

### Diesel Range Organics

Method 8015MOD\_NM: The method blank for preparation batch 860-221036 and analytical batch 860-221325 contained C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

### HPLC/IC

Method 300\_ORGFM\_28D: The method blank for analytical batch 860-220456 contained Chloride the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300\_ORGFM\_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1 (890-7743-1), MW-4 (890-7743-4) and DUP-1 (890-7743-5). Elevated reporting limits (RLs) are provided.

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

Eurofins Carlsbad

### Client Sample Results

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

**Client Sample ID: MW-1**

**Lab Sample ID: 890-7743-1**

Date Collected: 03/03/25 12:15

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000460	mg/L			03/06/25 00:43	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/06/25 00:43	1
Ethylbenzene	<0.00100	U	0.00100	0.000385	mg/L			03/06/25 00:43	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 00:43	1
o-Xylene	<0.00100	U	0.00100	0.000502	mg/L			03/06/25 00:43	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		03/06/25 00:43	1
4-Bromofluorobenzene (Surr)	100		74 - 124		03/06/25 00:43	1
Dibromofluoromethane (Surr)	101		75 - 131		03/06/25 00:43	1
Toluene-d8 (Surr)	101		80 - 120		03/06/25 00:43	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 00:43	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<5.00	U	5.00	0.988	mg/L			03/11/25 05:05	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00	0.988	mg/L		03/07/25 10:25	03/11/25 05:05	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00	0.988	mg/L		03/07/25 10:25	03/11/25 05:05	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00	0.954	mg/L		03/07/25 10:25	03/11/25 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 135	03/07/25 10:25	03/11/25 05:05	1
o-Terphenyl	74		70 - 135	03/07/25 10:25	03/11/25 05:05	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		2.50	1.25	mg/L			03/05/25 21:34	5

**Client Sample ID: MW-2**

**Lab Sample ID: 890-7743-2**

Date Collected: 03/03/25 10:10

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000460	mg/L			03/06/25 01:03	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/06/25 01:03	1
Ethylbenzene	<0.00100	U	0.00100	0.000385	mg/L			03/06/25 01:03	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:03	1
o-Xylene	<0.00100	U	0.00100	0.000502	mg/L			03/06/25 01:03	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		03/06/25 01:03	1

Eurofins Carlsbad

### Client Sample Results

Client: Ensolum  
 Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
 SDG: 03C2466002

**Client Sample ID: MW-2**

**Lab Sample ID: 890-7743-2**

Date Collected: 03/03/25 10:10

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		03/06/25 01:03	1
Dibromofluoromethane (Surr)	103		75 - 131		03/06/25 01:03	1
Toluene-d8 (Surr)	103		80 - 120		03/06/25 01:03	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:03	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.92	U	4.92	0.972	mg/L			03/11/25 05:23	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.92	U	4.92	0.972	mg/L		03/07/25 10:25	03/11/25 05:23	1
Diesel Range Organics (Over C10-C28)	<4.92	U	4.92	0.972	mg/L		03/07/25 10:25	03/11/25 05:23	1
Oil Range Organics (Over C28-C36)	<4.92	U	4.92	0.938	mg/L		03/07/25 10:25	03/11/25 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	03/07/25 10:25	03/11/25 05:23	1
o-Terphenyl	76		70 - 135	03/07/25 10:25	03/11/25 05:23	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	218		0.500	0.250	mg/L			03/05/25 21:51	1

**Client Sample ID: MW-3**

**Lab Sample ID: 890-7743-3**

Date Collected: 03/03/25 13:10

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000460	mg/L			03/06/25 01:24	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/06/25 01:24	1
Ethylbenzene	<0.00100	U	0.00100	0.000385	mg/L			03/06/25 01:24	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:24	1
o-Xylene	<0.00100	U	0.00100	0.000502	mg/L			03/06/25 01:24	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		03/06/25 01:24	1
4-Bromofluorobenzene (Surr)	103		74 - 124		03/06/25 01:24	1
Dibromofluoromethane (Surr)	103		75 - 131		03/06/25 01:24	1
Toluene-d8 (Surr)	103		80 - 120		03/06/25 01:24	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:24	1

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### Client Sample Results

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

**Client Sample ID: MW-3**

**Lab Sample ID: 890-7743-3**

Date Collected: 03/03/25 13:10

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.98	U	4.98	0.985	mg/L			03/11/25 05:41	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.98	U	4.98	0.985	mg/L		03/07/25 10:25	03/11/25 05:41	1
Diesel Range Organics (Over C10-C28)	<4.98	U	4.98	0.985	mg/L		03/07/25 10:25	03/11/25 05:41	1
Oil Range Organics (Over C28-C36)	<4.98	U	4.98	0.950	mg/L		03/07/25 10:25	03/11/25 05:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135				03/07/25 10:25	03/11/25 05:41	1
o-Terphenyl	81		70 - 135				03/07/25 10:25	03/11/25 05:41	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		0.500	0.250	mg/L			03/05/25 22:25	1

**Client Sample ID: MW-4**

**Lab Sample ID: 890-7743-4**

Date Collected: 03/03/25 13:40

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000460	mg/L			03/06/25 01:44	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/06/25 01:44	1
Ethylbenzene	<0.00100	U	0.00100	0.000385	mg/L			03/06/25 01:44	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:44	1
o-Xylene	<0.00100	U	0.00100	0.000502	mg/L			03/06/25 01:44	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		63 - 144					03/06/25 01:44	1
4-Bromofluorobenzene (Surr)	114		74 - 124					03/06/25 01:44	1
Dibromofluoromethane (Surr)	108		75 - 131					03/06/25 01:44	1
Toluene-d8 (Surr)	105		80 - 120					03/06/25 01:44	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 01:44	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.84	U	4.84	0.956	mg/L			03/11/25 03:53	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.84	U	4.84	0.956	mg/L		03/07/25 10:25	03/11/25 03:53	1
Diesel Range Organics (Over C10-C28)	<4.84	U	4.84	0.956	mg/L		03/07/25 10:25	03/11/25 03:53	1
Oil Range Organics (Over C28-C36)	<4.84	U	4.84	0.923	mg/L		03/07/25 10:25	03/11/25 03:53	1

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### Client Sample Results

Client: Ensolium  
 Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
 SDG: 03C2466002

**Client Sample ID: MW-4**

**Lab Sample ID: 890-7743-4**

Date Collected: 03/03/25 13:40

Matrix: Water

Date Received: 03/03/25 15:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	03/07/25 10:25	03/11/25 03:53	1
o-Terphenyl	91		70 - 135	03/07/25 10:25	03/11/25 03:53	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20100		50.0	25.0	mg/L			03/05/25 22:41	100

**Client Sample ID: DUP-1**

**Lab Sample ID: 890-7743-5**

Date Collected: 03/03/25 12:00

Matrix: Water

Date Received: 03/03/25 15:46

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000460	mg/L			03/06/25 02:05	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/06/25 02:05	1
Ethylbenzene	<0.00100	U	0.00100	0.000385	mg/L			03/06/25 02:05	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 02:05	1
o-Xylene	<0.00100	U	0.00100	0.000502	mg/L			03/06/25 02:05	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		63 - 144		03/06/25 02:05	1
4-Bromofluorobenzene (Surr)	98		74 - 124		03/06/25 02:05	1
Dibromofluoromethane (Surr)	105		75 - 131		03/06/25 02:05	1
Toluene-d8 (Surr)	102		80 - 120		03/06/25 02:05	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/06/25 02:05	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<5.14	U	5.14	1.02	mg/L			03/11/25 04:15	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.14	U	5.14	1.02	mg/L		03/07/25 10:25	03/11/25 04:15	1
Diesel Range Organics (Over C10-C28)	<5.14	U	5.14	1.02	mg/L		03/07/25 10:25	03/11/25 04:15	1
Oil Range Organics (Over C28-C36)	<5.14	U	5.14	0.980	mg/L		03/07/25 10:25	03/11/25 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	03/07/25 10:25	03/11/25 04:15	1
o-Terphenyl	107		70 - 135	03/07/25 10:25	03/11/25 04:15	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		2.50	1.25	mg/L			03/05/25 22:58	5

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## Surrogate Summary

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-95114-B-7 MS	Matrix Spike	95	102	99	101
890-7743-1	MW-1	108	100	101	101
890-7743-2	MW-2	105	104	103	103
890-7743-3	MW-3	106	103	103	103
890-7743-4	MW-4	114	114	108	105
890-7743-5	DUP-1	110	98	105	102
LCS 860-220595/3	Lab Control Sample	97	100	99	100
LCSD 860-220595/4	Lab Control Sample Dup	95	102	98	102
MB 860-220595/9	Method Blank	101	100	100	101

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
890-7743-1	MW-1	73	74
890-7743-2	MW-2	80	76
890-7743-3	MW-3	85	81
890-7743-4	MW-4	80	91
890-7743-5	DUP-1	97	107
LCS 860-221036/2-A	Lab Control Sample	113	108
LCSD 860-221036/3-A	Lab Control Sample Dup	114	114
MB 860-221036/1-A	Method Blank	93	90

**Surrogate Legend**

1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

### QC Sample Results

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

#### Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-220595/9  
Matrix: Water  
Analysis Batch: 220595

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000460	mg/L			03/05/25 22:40	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/05/25 22:40	1
Ethylbenzene	<0.00100	U	0.00100	0.000385	mg/L			03/05/25 22:40	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/05/25 22:40	1
o-Xylene	<0.00100	U	0.00100	0.000502	mg/L			03/05/25 22:40	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/05/25 22:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		03/05/25 22:40	1
4-Bromofluorobenzene (Surr)	100		74 - 124		03/05/25 22:40	1
Dibromofluoromethane (Surr)	100		75 - 131		03/05/25 22:40	1
Toluene-d8 (Surr)	101		80 - 120		03/05/25 22:40	1

Lab Sample ID: LCS 860-220595/3  
Matrix: Water  
Analysis Batch: 220595

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04867		mg/L		97	75 - 125
Toluene	0.0500	0.04736		mg/L		95	75 - 130
Ethylbenzene	0.0500	0.04791		mg/L		96	75 - 125
m,p-Xylenes	0.0500	0.04692		mg/L		94	75 - 125
o-Xylene	0.0500	0.04780		mg/L		96	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 860-220595/4  
Matrix: Water  
Analysis Batch: 220595

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04740		mg/L		95	75 - 125	3	25
Toluene	0.0500	0.04715		mg/L		94	75 - 130	0	25
Ethylbenzene	0.0500	0.04750		mg/L		95	75 - 125	1	25
m,p-Xylenes	0.0500	0.04664		mg/L		93	75 - 125	1	25
o-Xylene	0.0500	0.04673		mg/L		93	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	102		80 - 120

### QC Sample Results

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

#### Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-95114-B-7 MS  
Matrix: Water  
Analysis Batch: 220595

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00100	U	0.100	0.1024		mg/L		102	66 - 142
Toluene	<0.00100	U	0.100	0.1025		mg/L		103	59 - 139
Ethylbenzene	<0.00100	U	0.100	0.1003		mg/L		100	75 - 125
m,p-Xylenes	<0.0100	U	0.100	0.09926		mg/L		99	75 - 125
o-Xylene	<0.00100	U	0.100	0.09877		mg/L		99	75 - 125
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	95		63 - 144						
4-Bromofluorobenzene (Surr)	102		74 - 124						
Dibromofluoromethane (Surr)	99		75 - 131						
Toluene-d8 (Surr)	101		80 - 120						

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-221036/1-A  
Matrix: Water  
Analysis Batch: 221325

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 221036

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	1.539	J	5.00	0.988	mg/L		03/07/25 10:25	03/11/25 02:38	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00	0.988	mg/L		03/07/25 10:25	03/11/25 02:38	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00	0.954	mg/L		03/07/25 10:25	03/11/25 02:38	1
<b>MB MB</b>									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	93		70 - 135	03/07/25 10:25	03/11/25 02:38	1			
o-Terphenyl	90		70 - 135	03/07/25 10:25	03/11/25 02:38	1			

Lab Sample ID: LCS 860-221036/2-A  
Matrix: Water  
Analysis Batch: 221325

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 221036

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	100	93.32		mg/L		93	70 - 135
Diesel Range Organics (Over C10-C28)	100	102.5		mg/L		103	70 - 135
<b>LCS LCS</b>							
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	113		70 - 135				
o-Terphenyl	108		70 - 135				

### QC Sample Results

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-221036/3-A  
Matrix: Water  
Analysis Batch: 221325

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 221036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	103.4		mg/L		103	70 - 135	10	35
Diesel Range Organics (Over C10-C28)	100	120.9		mg/L		121	70 - 135	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 135
o-Terphenyl	114		70 - 135

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-220456/3  
Matrix: Water  
Analysis Batch: 220456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.3615	J	0.500	0.250	mg/L			03/05/25 11:04	1

Lab Sample ID: MB 860-220456/45  
Matrix: Water  
Analysis Batch: 220456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500	0.250	mg/L			03/05/25 17:22	1

Lab Sample ID: LCS 860-220456/46  
Matrix: Water  
Analysis Batch: 220456

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.153		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-220456/47  
Matrix: Water  
Analysis Batch: 220456

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.232		mg/L		92	90 - 110	1	20

Lab Sample ID: LLCS 860-220456/7  
Matrix: Water  
Analysis Batch: 220456

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.6258		mg/L		125	50 - 150

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### QC Sample Results

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 560-124759-A-1 MS  
Matrix: Water  
Analysis Batch: 220456

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	84.1		10.0	93.78	4	mg/L		97	90 - 110

Lab Sample ID: 560-124759-A-1 MSD  
Matrix: Water  
Analysis Batch: 220456

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.1		10.0	93.90	4	mg/L		98	90 - 110	0	15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## QC Association Summary

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

## GC/MS VOA

## Analysis Batch: 220595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-1	MW-1	Total/NA	Water	8260D	
890-7743-2	MW-2	Total/NA	Water	8260D	
890-7743-3	MW-3	Total/NA	Water	8260D	
890-7743-4	MW-4	Total/NA	Water	8260D	
890-7743-5	DUP-1	Total/NA	Water	8260D	
MB 860-220595/9	Method Blank	Total/NA	Water	8260D	
LCS 860-220595/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-220595/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-95114-B-7 MS	Matrix Spike	Total/NA	Water	8260D	

## Analysis Batch: 221152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-1	MW-1	Total/NA	Water	Total BTEX	
890-7743-2	MW-2	Total/NA	Water	Total BTEX	
890-7743-3	MW-3	Total/NA	Water	Total BTEX	
890-7743-4	MW-4	Total/NA	Water	Total BTEX	
890-7743-5	DUP-1	Total/NA	Water	Total BTEX	

## GC Semi VOA

## Prep Batch: 221036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-1	MW-1	Total/NA	Water	8015NM Aq Prep	
890-7743-2	MW-2	Total/NA	Water	8015NM Aq Prep	
890-7743-3	MW-3	Total/NA	Water	8015NM Aq Prep	
890-7743-4	MW-4	Total/NA	Water	8015NM Aq Prep	
890-7743-5	DUP-1	Total/NA	Water	8015NM Aq Prep	
MB 860-221036/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-221036/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-221036/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

## Analysis Batch: 221325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-1	MW-1	Total/NA	Water	8015B NM	221036
890-7743-2	MW-2	Total/NA	Water	8015B NM	221036
890-7743-3	MW-3	Total/NA	Water	8015B NM	221036
MB 860-221036/1-A	Method Blank	Total/NA	Water	8015B NM	221036
LCS 860-221036/2-A	Lab Control Sample	Total/NA	Water	8015B NM	221036
LCSD 860-221036/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	221036

## Analysis Batch: 221348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-4	MW-4	Total/NA	Water	8015B NM	221036
890-7743-5	DUP-1	Total/NA	Water	8015B NM	221036

## Analysis Batch: 221737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-1	MW-1	Total/NA	Water	8015 NM	
890-7743-2	MW-2	Total/NA	Water	8015 NM	
890-7743-3	MW-3	Total/NA	Water	8015 NM	
890-7743-4	MW-4	Total/NA	Water	8015 NM	

Eurofins Carlsbad

### QC Association Summary

Client: Ensolum  
 Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
 SDG: 03C2466002

#### GC Semi VOA (Continued)

##### Analysis Batch: 221737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-5	DUP-1	Total/NA	Water	8015 NM	

#### HPLC/IC

##### Analysis Batch: 220456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7743-1	MW-1	Total/NA	Water	300.0	
890-7743-2	MW-2	Total/NA	Water	300.0	
890-7743-3	MW-3	Total/NA	Water	300.0	
890-7743-4	MW-4	Total/NA	Water	300.0	
890-7743-5	DUP-1	Total/NA	Water	300.0	
MB 860-220456/3	Method Blank	Total/NA	Water	300.0	
MB 860-220456/45	Method Blank	Total/NA	Water	300.0	
LCS 860-220456/46	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-220456/47	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-220456/7	Lab Control Sample	Total/NA	Water	300.0	
560-124759-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
560-124759-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### Lab Chronicle

Client: Ensolum  
 Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
 SDG: 03C2466002

**Client Sample ID: MW-1**

**Lab Sample ID: 890-7743-1**

Date Collected: 03/03/25 12:15

Matrix: Water

Date Received: 03/03/25 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	220595	03/06/25 00:43	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			221152	03/06/25 00:43	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			221737	03/11/25 05:05	RJT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30 mL	3 mL	221036	03/07/25 10:25	TH	EET HOU
Total/NA	Analysis	8015B NM		1			221325	03/11/25 05:05	T1S	EET HOU
Total/NA	Analysis	300.0		5			220456	03/05/25 21:34	WP	EET HOU

**Client Sample ID: MW-2**

**Lab Sample ID: 890-7743-2**

Date Collected: 03/03/25 10:10

Matrix: Water

Date Received: 03/03/25 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	220595	03/06/25 01:03	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			221152	03/06/25 01:03	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			221737	03/11/25 05:23	RJT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.5 mL	3 mL	221036	03/07/25 10:25	TH	EET HOU
Total/NA	Analysis	8015B NM		1			221325	03/11/25 05:23	T1S	EET HOU
Total/NA	Analysis	300.0		1			220456	03/05/25 21:51	WP	EET HOU

**Client Sample ID: MW-3**

**Lab Sample ID: 890-7743-3**

Date Collected: 03/03/25 13:10

Matrix: Water

Date Received: 03/03/25 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	220595	03/06/25 01:24	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			221152	03/06/25 01:24	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			221737	03/11/25 05:41	RJT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.1 mL	3 mL	221036	03/07/25 10:25	TH	EET HOU
Total/NA	Analysis	8015B NM		1			221325	03/11/25 05:41	T1S	EET HOU
Total/NA	Analysis	300.0		1			220456	03/05/25 22:25	WP	EET HOU

**Client Sample ID: MW-4**

**Lab Sample ID: 890-7743-4**

Date Collected: 03/03/25 13:40

Matrix: Water

Date Received: 03/03/25 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	220595	03/06/25 01:44	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			221152	03/06/25 01:44	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			221737	03/11/25 03:53	RJT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31 mL	3 mL	221036	03/07/25 10:25	TH	EET HOU
Total/NA	Analysis	8015B NM		1			221348	03/11/25 03:53	W1N	EET HOU
Total/NA	Analysis	300.0		100			220456	03/05/25 22:41	WP	EET HOU

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
 SDG: 03C2466002

**Client Sample ID: DUP-1**

**Lab Sample ID: 890-7743-5**

**Date Collected: 03/03/25 12:00**

**Matrix: Water**

**Date Received: 03/03/25 15:46**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	220595	03/06/25 02:05	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			221152	03/06/25 02:05	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			221737	03/11/25 04:15	RJT	EET HOU
Total/NA	Prep	8015NM Aq Prep			29.2 mL	3 mL	221036	03/07/25 10:25	TH	EET HOU
Total/NA	Analysis	8015B NM		1			221348	03/11/25 04:15	W1N	EET HOU
Total/NA	Analysis	300.0		5			220456	03/05/25 22:58	WP	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

#### Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	07-01-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
Total BTEX		Water	Total BTEX

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### Method Summary

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

**Protocol References:**

- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



### Sample Summary

Client: Ensolum  
Project/Site: Cotton Recycling facility

Job ID: 890-7743-1  
SDG: 03C2466002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7743-1	MW-1	Water	03/03/25 12:15	03/03/25 15:46
890-7743-2	MW-2	Water	03/03/25 10:10	03/03/25 15:46
890-7743-3	MW-3	Water	03/03/25 13:10	03/03/25 15:46
890-7743-4	MW-4	Water	03/03/25 13:40	03/03/25 15:46
890-7743-5	DUP-1	Water	03/03/25 12:00	03/03/25 15:46

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Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

### Chain of Custody

www.xenco.com



890-7743 Chain of Custody

Project Manager:	Tracy Hillard	Bill to: (if different)	Tracy Hillard
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-937-3906	Email:	thillard@ensolum.com / usantillana@ensolum.com / tmorrissey@ensolum.com

<b>Work Order Comments</b>	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Cottonwood Recycling Facility	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		
Project Number:	03C2466002	Due Date:				
Project Location:	32.021048, -104.31879	TAT starts the day received by the lab, if received by 4:30pm				
Sampler's Name:	Uriel Santillana					
PO #:	6060931579					
<b>SAMPLE RECEIPT</b>	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.7			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	3.0			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	2.8			
Total Containers:						

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
MMW-1	water	3/3/2025	12:15		6	6	CHLORIDES (EPA: 3000.0)	None: NO DI Water: H <sub>2</sub> O	
MMW-2			10:10		6	3	TPH (8015)	Cool: Cool MeOH: Me	
MMW-3			13:10		6	6	BTEX (8021)	HCL: HC HNO <sub>3</sub> : HN	
MMW-4			13:40		6	6	TEG - 8015D	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na	
DUP-1			12:00		6	6	TX1006	H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS	
								Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> Zn Acetate+NaOH: Zn	
								NaOH+Ascorbic Acid: SAPC	

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn					
Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM		Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn					
Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
3		4		4		6		6		6	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7743-1

SDG Number: 03C2466002

Login Number: 7743

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

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### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7743-1

SDG Number: 03C2466002

Login Number: 7743

List Number: 2

Creator: Grandits, Corey

List Source: Eurofins Houston

List Creation: 03/05/25 10:49 AM

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

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

July 02, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: COTTON WOOD RECYCLING FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 06/26/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	06/26/2025	Sampling Date:	06/24/2025
Reported:	07/02/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW - 1 (H253865-01)**

BTEX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	07/01/2025	ND	0.021	106	0.0200	0.663	
Toluene*	<0.001	0.001	07/01/2025	ND	0.021	106	0.0200	0.202	
Ethylbenzene*	<0.001	0.001	07/01/2025	ND	0.022	109	0.0200	0.383	
Total Xylenes*	<0.003	0.003	07/01/2025	ND	0.064	106	0.0600	0.581	
Total BTEX	<0.006	0.006	07/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	188	4.00	06/27/2025	ND	100	100	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	07/01/2025	ND	41.3	82.6	50.0	1.75	
DRO >C10-C28*	<1.00	1.00	07/01/2025	ND	39.3	78.7	50.0	0.305	
EXT DRO >C28-C36	<1.00	1.00	07/01/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 66.1-138

Surrogate: 1-Chlorooctadecane 83.0 % 59.8-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	06/26/2025	Sampling Date:	06/24/2025
Reported:	07/02/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW - 2 (H253865-02)**

Chloride, SM4500CI-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride*</b>	<b>132</b>	4.00	06/27/2025	ND	100	100	100	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	06/26/2025	Sampling Date:	06/24/2025
Reported:	07/02/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW - 3 (H253865-03)**

BTEX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	07/01/2025	ND	0.021	106	0.0200	0.663	
Toluene*	<0.001	0.001	07/01/2025	ND	0.021	106	0.0200	0.202	
Ethylbenzene*	<0.001	0.001	07/01/2025	ND	0.022	109	0.0200	0.383	
Total Xylenes*	<0.003	0.003	07/01/2025	ND	0.064	106	0.0600	0.581	
Total BTEX	<0.006	0.006	07/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	184	4.00	06/27/2025	ND	100	100	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	07/01/2025	ND	41.3	82.6	50.0	1.75	
DRO >C10-C28*	<1.00	1.00	07/01/2025	ND	39.3	78.7	50.0	0.305	
EXT DRO >C28-C36	<1.00	1.00	07/01/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 66.1-138

Surrogate: 1-Chlorooctadecane 78.9 % 59.8-147

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	06/26/2025	Sampling Date:	06/24/2025
Reported:	07/02/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW - 4 (H253865-04)**

BTEX 8021B		mg/L		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	07/02/2025	ND	0.021	106	0.0200	0.663	
Toluene*	<0.001	0.001	07/02/2025	ND	0.021	106	0.0200	0.202	
Ethylbenzene*	<0.001	0.001	07/02/2025	ND	0.022	109	0.0200	0.383	
Total Xylenes*	<0.003	0.003	07/02/2025	ND	0.064	106	0.0600	0.581	
Total BTEX	<0.006	0.006	07/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 181 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	20000	4.00	06/27/2025	ND	100	100	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	07/01/2025	ND	41.3	82.6	50.0	1.75	
DRO >C10-C28*	<1.00	1.00	07/01/2025	ND	39.3	78.7	50.0	0.305	
EXT DRO >C28-C36	<1.00	1.00	07/01/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 66.1-138

Surrogate: 1-Chlorooctadecane 82.5 % 59.8-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	06/26/2025	Sampling Date:	06/24/2025
Reported:	07/02/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: DUP - 1 (H253865-05)**

BTEX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	07/01/2025	ND	0.021	106	0.0200	0.663	
Toluene*	<0.001	0.001	07/01/2025	ND	0.021	106	0.0200	0.202	
Ethylbenzene*	<0.001	0.001	07/01/2025	ND	0.022	109	0.0200	0.383	
Total Xylenes*	<0.003	0.003	07/01/2025	ND	0.064	106	0.0600	0.581	
Total BTEX	<0.006	0.006	07/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	188	4.00	06/27/2025	ND	100	100	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	07/01/2025	ND	41.3	82.6	50.0	1.75	
DRO >C10-C28*	<1.00	1.00	07/01/2025	ND	39.3	78.7	50.0	0.305	
EXT DRO >C28-C36	<1.00	1.00	07/01/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 66.1-138

Surrogate: 1-Chlorooctadecane 79.3 % 59.8-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

City: Culbuck, NM State: NM Zip: 88220

Phone #: 575 937 3906 Fax #:

Project #: 03C2466002 Project Owner:

Project Name: Cotton Wood Recycling Facility

Project Location: 32.021048, -104.31879

Sampler Name: Daniel Santillana

BILL TO

P.O. #:

Company: Ensolum, LLC

Attn: Tracy Hillard

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
HBS3865	MW-1	G	9	X						6/24/25	1050	Chlorides	
	MW-2	G	1	X							1130	TPH	
	MW-3	G	9	X							933	BTEX	
	MW-4	G	9	X							1154		
	Dup-1	G	9	X							1200		

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Relinquished By:

Date: 6/26/25  
Time: 1340

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Corrected Temp. °C

FORM 006 REV 02/12/23

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

REMARKS: PD #: 6000031519  
Vials for sample #2 were empty, only able to run chlorides. Spodigney to run. 6/26/25



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

---

September 05, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: COTTON WOOD RECYCLING FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 08/28/25 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/28/2025	Sampling Date:	08/27/2025
Reported:	09/05/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW 1 (H255378-01)**

BTEX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	08/29/2025	ND	0.020	100	0.0200	2.84	
Toluene*	<0.001	0.001	08/29/2025	ND	0.021	107	0.0200	1.56	
Ethylbenzene*	<0.001	0.001	08/29/2025	ND	0.021	106	0.0200	0.788	
Total Xylenes*	<0.003	0.003	08/29/2025	ND	0.062	104	0.0600	1.63	
Total BTEX	<0.006	0.006	08/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	184	4.00	08/29/2025	ND	104	104	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	09/05/2025	ND	54.1	108	50.0	1.25	
DRO >C10-C28*	<1.00	1.00	09/05/2025	ND	51.5	103	50.0	1.03	
EXT DRO >C28-C36	<1.00	1.00	09/05/2025	ND					

Surrogate: 1-Chlorooctane 73.2 % 66.1-138

Surrogate: 1-Chlorooctadecane 64.5 % 59.8-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/28/2025	Sampling Date:	08/27/2025
Reported:	09/05/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW 2 (H255378-02)**

Chloride, SM4500CI-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride*</b>	<b>136</b>	4.00	08/29/2025	ND	104	104	100	0.00	

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/28/2025	Sampling Date:	08/27/2025
Reported:	09/05/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW 3 (H255378-03)**

BTEX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	08/29/2025	ND	0.020	100	0.0200	2.84	
Toluene*	<0.001	0.001	08/29/2025	ND	0.021	107	0.0200	1.56	
Ethylbenzene*	<0.001	0.001	08/29/2025	ND	0.021	106	0.0200	0.788	
Total Xylenes*	<0.003	0.003	08/29/2025	ND	0.062	104	0.0600	1.63	
Total BTEX	<0.006	0.006	08/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	176	4.00	08/29/2025	ND	104	104	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	09/05/2025	ND	54.1	108	50.0	1.25	
DRO >C10-C28*	<1.00	1.00	09/05/2025	ND	51.5	103	50.0	1.03	
EXT DRO >C28-C36	<1.00	1.00	09/05/2025	ND					

Surrogate: 1-Chlorooctane 74.5 % 66.1-138

Surrogate: 1-Chlorooctadecane 64.8 % 59.8-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/28/2025	Sampling Date:	08/27/2025
Reported:	09/05/2025	Sampling Type:	Water
Project Name:	COTTON WOOD RECYCLING FACILITY	Sampling Condition:	Cool & Intact
Project Number:	03C2466002	Sample Received By:	Tamara Oldaker
Project Location:	32.021048, -104.31879		

**Sample ID: MW 4 (H255378-04)**

BTEX 8021B		mg/L		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	08/29/2025	ND	0.020	100	0.0200	2.84		
Toluene*	<0.001	0.001	08/29/2025	ND	0.021	107	0.0200	1.56		
Ethylbenzene*	<0.001	0.001	08/29/2025	ND	0.021	106	0.0200	0.788		
Total Xylenes*	<0.003	0.003	08/29/2025	ND	0.062	104	0.0600	1.63		
Total BTEX	<0.006	0.006	08/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 65.6 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	18600	4.00	08/29/2025	ND	104	104	100	0.00		

TPH 8015M		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<1.00	1.00	09/05/2025	ND	54.1	108	50.0	1.25		
DRO >C10-C28*	<1.00	1.00	09/05/2025	ND	51.5	103	50.0	1.03		
EXT DRO >C28-C36	<1.00	1.00	09/05/2025	ND						

Surrogate: 1-Chlorooctane 78.2 % 66.1-138

Surrogate: 1-Chlorooctadecane 69.3 % 59.8-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: **ENSOLVM, LLC**  
 Project Manager: **TRACY HILLARD**  
 Address: **3122 NATIONAL PARKS HWY**  
 City: **CARLSBAD** State: **NM** Zip: **88220**  
 Phone #: **575.937.3906** Fax #:  
 Project #: **0302466002** Project Owner: **DELEY LOGISTICS**  
 Project Name: **COTTONWOOD RECYCLING FACILITY**  
 Project Location: **32.021048, -104.31879**  
 Sampler Name: **CARIS WRIGHT**  
 P.O. #: \_\_\_\_\_ Company: **ENSOLVM, LLC**  
 Attn: **TRACY HILLARD**  
 Add./ress: \_\_\_\_\_ City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: **CEW**  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
ABS5378													
1	MM1	G	9	✓					✓	8/27/25	1055	BTEX	
2	MM2	G	1	✓					✓	8/27/25	1120	TPH	
3	MM3	G	9	✓					✓	8/27/25	1155	CHLORIDES	
4	MM4	G	9	✓					✓	8/27/25	1237	ND Containers	

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Relinquished By: **CEW** Date: **8-28-25** Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
 Observed Temp. °C: **3.6** Corrected Temp. °C: **3.9**  
 Sample Condition:  Cool  Intact  Yes  No  Yes  No  
 CHECKED BY: (Initials) **CEW**  
 Turnaround Time:  Standard  Rush  
 Thermometer ID #140 Correction Factor +0.3°C  
 Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  Yes  No  
 Corrected Temp. °C: \_\_\_\_\_  
 REMARKS: **PO Number: 6000031519**  
 All Results are emailed. Please provide Email address: **thillard@ensolvm.com tmorrissey@ensolvm.com cwright@ensolvm.com**

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

December 12, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: COTTON WOOD RECYCLING FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 12/05/25 9:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW 01	H257572-01	Water	04-Dec-25 10:05	05-Dec-25 09:32
MW 02	H257572-02	Water	04-Dec-25 11:05	05-Dec-25 09:32
MW 03	H257572-03	Water	04-Dec-25 12:17	05-Dec-25 09:32
MW 04	H257572-04	Water	04-Dec-25 13:30	05-Dec-25 09:32
DUP - 1	H257572-05	Water	04-Dec-25 10:20	05-Dec-25 09:32

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\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**MW 01**

**H257572-01 (Water)**

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

**Inorganic Compounds**

<b>Chloride*</b>	<b>184</b>		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %		80.3-128	5120519	JH	10-Dec-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.2 %		51.8-121	5120511	MS	11-Dec-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.9 %		44.1-130	5120511	MS	11-Dec-25	8015B	
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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**MW 02**

**H257572-02 (Water)**

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

**Inorganic Compounds**

Chloride*	128		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	80.3-128		5120519	JH	10-Dec-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	

Surrogate: 1-Chlorooctane			91.7 %	51.8-121		5120511	MS	11-Dec-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.2 %	44.1-130		5120511	MS	11-Dec-25	8015B	
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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**MW 03**

**H257572-03 (Water)**

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

**Inorganic Compounds**

<b>Chloride*</b>	<b>168</b>		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	80.3-128		5120519	JH	10-Dec-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.8 %	51.8-121		5120511	MS	11-Dec-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			72.7 %	44.1-130		5120511	MS	11-Dec-25	8015B	
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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**MW 04**

**H257572-04 (Water)**

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

**Inorganic Compounds**

<b>Chloride*</b>	<b>16600</b>		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.001</b>		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	80.3-128		5120519	JH	10-Dec-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.4 %	51.8-121		5120511	MS	11-Dec-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.9 %	44.1-130		5120511	MS	11-Dec-25	8015B	
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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**DUP - 1**

**H257572-05 (Water)**

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

**Inorganic Compounds**

Chloride*	188		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	80.3-128		5120519	JH	10-Dec-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
DRO >C10-C28*	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	
EXT DRO >C28-C36	<1.00		1.00	mg/L	0.1	5120511	MS	11-Dec-25	8015B	

Surrogate: 1-Chlorooctane			83.4 %	51.8-121		5120511	MS	11-Dec-25	8015B	
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Surrogate: 1-Chlorooctadecane			74.7 %	44.1-130		5120511	MS	11-Dec-25	8015B	
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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5120533 - General Prep - Wet Chem</b>										
<b>Blank (5120533-BLK1)</b>										
Prepared & Analyzed: 05-Dec-25										
Chloride	ND	4.00	mg/L							
<b>LCS (5120533-BS1)</b>										
Prepared & Analyzed: 05-Dec-25										
Chloride	104	4.00	mg/L	100		104	80-120			
<b>LCS Dup (5120533-BSD1)</b>										
Prepared & Analyzed: 05-Dec-25										
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	

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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5120519 - Volatiles**

**Blank (5120519-BLK1)**

Prepared: 05-Dec-25 Analyzed: 10-Dec-25

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	mg/L							
Ethylbenzene	ND	0.001	mg/L							
Total Xylenes	ND	0.003	mg/L							
Total BTEX	ND	0.006	mg/L							
Surrogate: 4-Bromofluorobenzene (PID)	0.0588		mg/L	0.0500		118	80.3-128			

**LCS (5120519-BS1)**

Prepared: 05-Dec-25 Analyzed: 10-Dec-25

Benzene	0.020	0.001	mg/L	0.0200		101	79.8-121			
Toluene	0.022	0.001	mg/L	0.0200		110	81.2-123			
Ethylbenzene	0.023	0.001	mg/L	0.0200		113	79.7-124			
m,p-Xylene	0.044	0.002	mg/L	0.0400		109	82.9-124			
o-Xylene	0.021	0.001	mg/L	0.0200		105	83-122			
Total Xylenes	0.065	0.003	mg/L	0.0600		108	83.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/L	0.0500		110	80.3-128			

**LCS Dup (5120519-BSD1)**

Prepared: 05-Dec-25 Analyzed: 10-Dec-25

Benzene	0.020	0.001	mg/L	0.0200		97.8	79.8-121	2.74	7.58	
Toluene	0.021	0.001	mg/L	0.0200		103	81.2-123	6.80	8.87	
Ethylbenzene	0.021	0.001	mg/L	0.0200		103	79.7-124	9.81	9.72	QR-04
m,p-Xylene	0.040	0.002	mg/L	0.0400		99.5	82.9-124	9.32	9.68	
o-Xylene	0.019	0.001	mg/L	0.0200		97.1	83-122	7.70	9.43	
Total Xylenes	0.059	0.003	mg/L	0.0600		98.7	83.7-123	8.79	9.45	
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/L	0.0500		105	80.3-128			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: COTTON WOOD RECYCLING FACIL Project Number: 03C2466002 Project Manager: TRACY HILLARD Fax To:	Reported: 12-Dec-25 14:03
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5120511 - General Prep - Organics**

**Blank (5120511-BLK1)** Prepared: 05-Dec-25 Analyzed: 11-Dec-25

GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	5.44		mg/L	5.00		109	51.8-121			
Surrogate: 1-Chlorooctadecane	4.67		mg/L	5.00		93.5	44.1-130			

**LCS (5120511-BS1)** Prepared: 05-Dec-25 Analyzed: 12-Dec-25

GRO C6-C10	54.3	1.00	mg/L	50.0		109	75.7-120			
DRO >C10-C28	51.8	1.00	mg/L	50.0		104	71.9-121			
Surrogate: 1-Chlorooctane	5.39		mg/L	5.00		108	51.8-121			
Surrogate: 1-Chlorooctadecane	5.11		mg/L	5.00		102	44.1-130			

**LCS Dup (5120511-BSD1)** Prepared: 05-Dec-25 Analyzed: 11-Dec-25

GRO C6-C10	51.1	1.00	mg/L	50.0		102	75.7-120	6.09	8.78	
DRO >C10-C28	47.3	1.00	mg/L	50.0		94.6	71.9-121	9.16	10.3	
Surrogate: 1-Chlorooctane	5.00		mg/L	5.00		100	51.8-121			
Surrogate: 1-Chlorooctadecane	4.70		mg/L	5.00		94.1	44.1-130			

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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

CONDITIONS

Action 554305

**CONDITIONS**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 554305
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
vvenegas	None	2/18/2026