

December 2, 2024

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

Re: Deferral Request Black River SWD 1

Incident Number nAPP2421542116

**Eddy County, New Mexico** 

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of San Mateo Black River Water Management Company (San Mateo), has prepared this *Deferral Request* to document assessment, excavation, and soil sampling activities at the Black River SWD 1 (Site). The Site is located in Unit B, Section 31, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.26605°, -104.12590°) and is associated with oil and gas exploration and production operations on private land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, San Mateo is submitting this *Deferral Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2421542116 until the Site is reconstructed and/or the well pad is abandoned.

#### **BACKGROUND**

On August 2, 2024, a leak developed on a fiberglass pipeline located inside a concrete secondary containment. As a result, approximately 94 barrels (bbls) of produced water were released inside the secondary containment and overspray from the leaking line impacted the caliche pad west of the containment; 94 bbls of produced water were recovered with a vacuum truck. San Mateo reported the release to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD web portal on August 2, 2024, and the release was assigned Incident Number nAPP2421542116. On November 15, 2024, a liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be intact with evident integrity to contain the release.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04281 POD1, with a documented static groundwater measurement of 52 feet below ground surface (bgs). The well is located 0.16 miles southwest of the Site. All wells used to establish depth to groundwater are depicted on Figure 1 and the referenced well records are included in Appendix A. The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.37 miles west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrdrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

#### **DELINEATION SAMPLING ACTIVITIES**

Between August 7, 2024, and September 11, 2024, Ensolum personnel collected delineation samples to determine lateral and vertical extent of the release. Soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and for volatile organic compounds (VOCs) utilizing a Honeywell® photoionization detector (PID). The release extent and all delineation soil sample locations were mapped utilizing a global positioning system (GPS) and are depicted on Figure 2.

To verify the lateral extent of the release, soil samples, denoted as SS01 through SS06, were collected at ground surface just outside the visibly stained area and field screened. If field screening suggested the presence of elevated chloride or VOC concentrations, Ensolum stepped out laterally to collect additional samples, adding a letter to the sample designation. Soil samples SS01D, SS02, SS03J, SS04, SS05N, SS06, SS06A, SS06B, SS06C, and SS06D were submitted for laboratory analysis.

For vertical delineation, Ensolum personnel used a hand auger to advance SS06 through SS06D to 1-foot bgs to collect a sample from the subsurface. Additional subsurface samples were collected from twelve boreholes. Ensolum advanced the boreholes with a hand auger to depths ranging from 1-foot bgs to 18 feet bgs. Soil samples were collected approximately every 2 feet and/or at the terminus of each boring and submitted for laboratory analysis. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B, and a photographic log is included in Appendix C.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



Laboratory analytical results indicated the presence of elevated chloride concentrations within the release and in other areas on the well pad. Lateral delineation soil samples SS01D, SS02, SS03J, SS04, SS05N, SS06C, and SS06D, collected at ground surface, were all in compliance with the Closure Criteria. Additionally, the surface soil samples collected at BH08 and BH12 were in compliance with the Closure Criteria. These samples defined the lateral extent of elevated chloride concentrations.

Within the actual release extent, vertical delineation was achieved at 6 feet bgs with the terminal sample in BH01 in compliance with Closure Criteria. Outside of the release extent, in potential historically impacted areas, soil samples near production equipment exceeded the Closure Criteria as deep as 14 feet bgs in BH04 and at shallower depths of 1 to 2 feet bgs in the boreholes farther away. Vertical delineation with terminal samples in compliance with Closure Criteria was achieved win BH03, BH04, BH06, BH07, BH09, BH10, and BH11. The laboratory analytical results are summarized in Table 1. Based on these results, excavation of impacted soil was warranted.

#### **EXCAVATION, CONFIRMATION SOIL SAMPLING AND LINER INSPECTION ACTIVITIES**

From November 05, 2024, through November 13, 2024, Ensolum personnel were onsite to oversee excavation and to excavate the accessible area to the maximum extent practicable (MEP). Excavation of the release area was completed with a backhoe, skid steer, hydro-vacuum, and hand tools to depths ranging from ground surface to 4 feet bgs. Following the removal of impacted soil, Ensolum personnel collected 16 five-point composite confirmation soil samples (FS01 through FS16) from the floor of the excavation and 3 five-point composite confirmation soil samples (SW01 through SW03) from the sidewalls of the excavation. The 5-point composite samples represented areas of no more than 200 square feet. They were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. All samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 3,144 square feet in size, and approximately 140 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and disposed of at the Lea Land Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation confirmation samples were in compliance with the strictest Closure Criteria, except for FS03, FS13, FS14, FS15, FS16, and SW03. The laboratory analytical results are summarized in Tables 2 and 3 and the complete laboratory analytical reports are included in Appendix D. All sampling notifications to NMOCD and additional correspondence is included in Appendix E.

#### **DEFERRAL REQUEST**

San Mateo is requesting deferral of final remediation due to the presence of active production equipment, process piping, and the supports beneath them, preventing full excavation of all identified impacted soil. The estimated area of requested deferral is approximately 1,821 square feet in size assuming a maximum depth of 18 feet according to analytical data collected during delineation activities. Confirmation sample area FS03 has a maximum depth of 3 feet according to data from BH03, 18 feet in in confirmation sample FS05 according to BH04, 3 feet in confirmation sample FS06 and FS14 through FS16 according to data from BH10, and 4 feet in confirmation sample area FS13 according to data from BH07. The area is presented in Figure 4. Impacted soil is limited to the area beneath active production



equipment and within the containment area, where remediation would require a major facility deconstruction. The release extent has been laterally defined by delineation soil samples SS01D, SS02, SS03J, SS04, and SS05N collected at ground surface, SS06C, SS06D, BH08 and BH12 collected at ground surface and 1-foot bgs, and vertically defined by boreholes BH01, BH04, BH10 and BH07, collected at 6 feet, 18 feet, 4 feet, and 3 feet bgs, respectively.

San Mateo does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 52 feet bgs, and all accessible impacted soil was removed during the excavation activities to the MEP. Any gross impacts were removed via scraping of the ground surface. The concentrations of chloride remaining in the Area of Requested Deferral are generally less than 1,000 mg/kg. These residual concentrations are unlikely to migrate to groundwater and will be covered with clean backfill material reducing the risk of exposure to surface plant and wildlife. During delineation and excavation activities, no evidence of karst lithology was discovered that would present an immediate pathway to shallow groundwater. The maximum depth of impact is 18 feet bgs. Without the apparent presence of karst features, the migration of chloride ions an additional 34 feet to groundwater is unlikely to occur. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, San Mateo requests deferral of final remediation for Incident Number nAPP2421542116 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely, **Ensolum, LLC** 

Ashley Giovengo Senior Scientist Daniel R. Moir, P.G. (license in WY & TX) Senior Managing Geologist

cc: Jason Touchet, Matador Production Company

### Appendices:

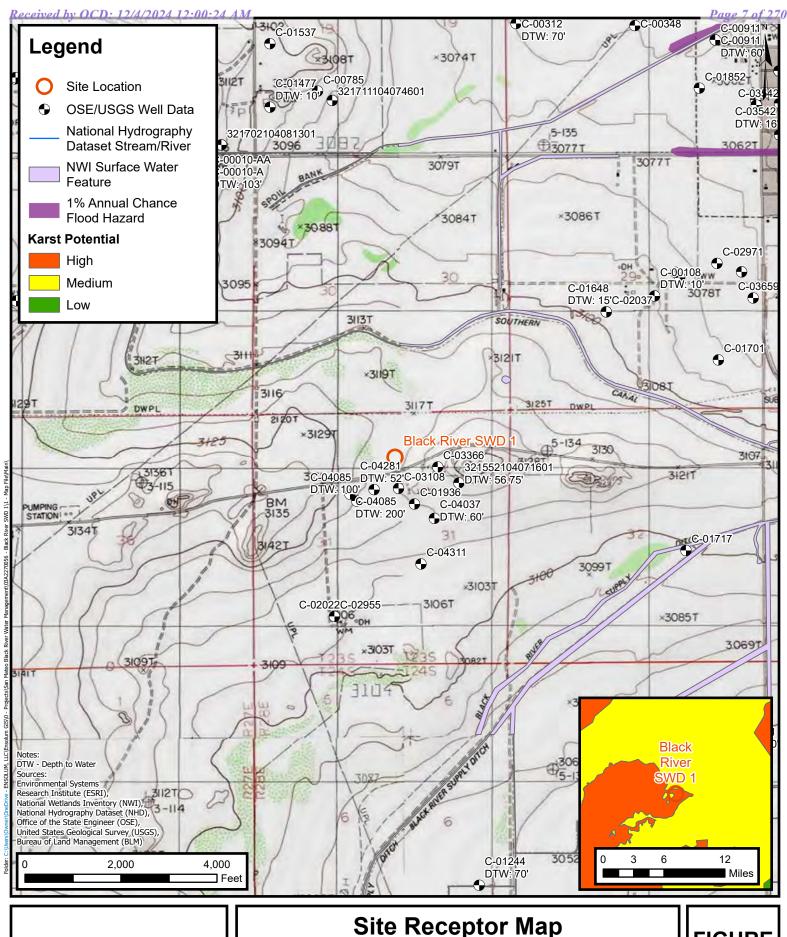
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation Appendix E NMOCD Notifications





**FIGURES** 



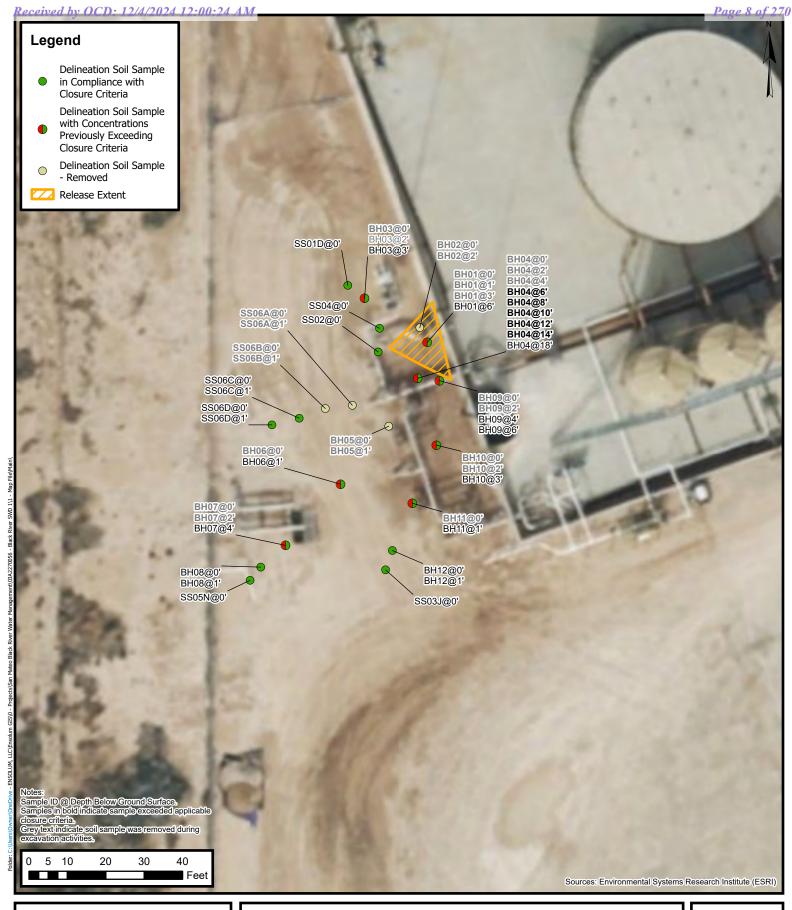


## Site Receptor Map

San Mateo Black River Water Management Company Black River SWD 1 Incident Number: nAPP2421542116 Unit B, Section 31, T 23S, R 28E Eddy County, New Mexico

**FIGURE** 

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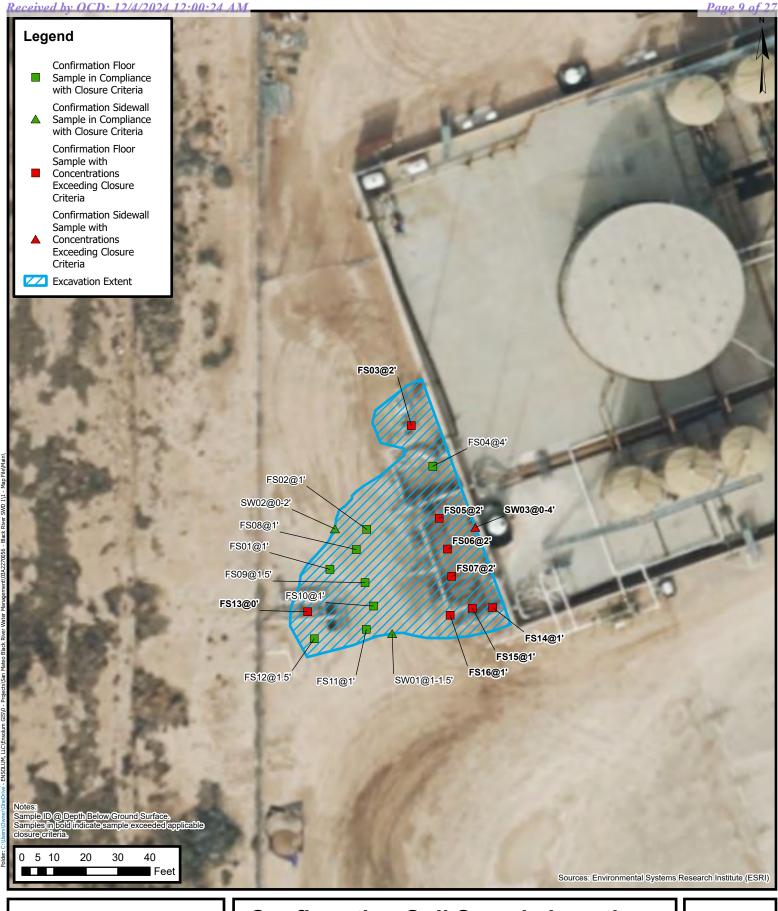




## **Delineation Soil Sample Locations**

San Mateo Black River Water Management Company
Black River SWD 1
Incident Number: nAPP2421542116
Unit B, Section 31, T 23S, R 28E
Eddy County, New Mexico

FIGURE 2

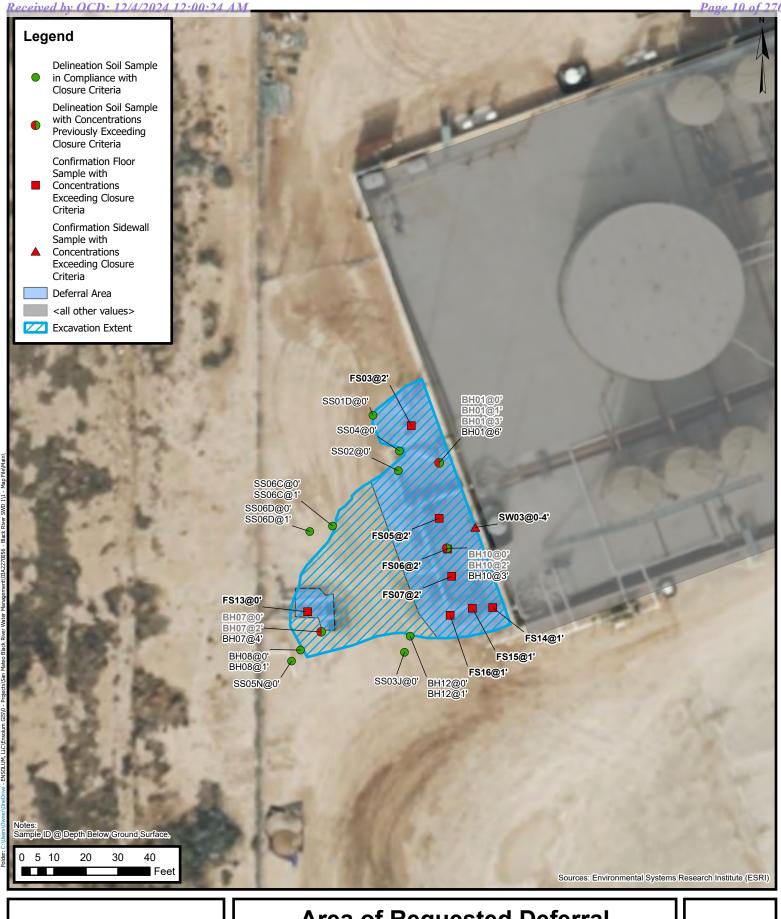




# **Confirmation Soil Sample Locations**

San Mateo Black River Water Management
Black River SWD 1
Incident Number: nAPP2421542116
Unit B, Section 31, T 23S, R 28E
Eddy County, New Mexico

FIGURE 3





# **Area of Requested Deferral**

San Mateo Black River Water Management Company
Black River SWD 1
Incident Number: nAPP2421542116
Unit B, Section 31, T 23S, R 28E
Eddy County, New Mexico

FIGURE 4





#### **SOIL SAMPLE ANALYTICAL RESULTS**

Black River SWD 1

San Mateo Black River Water Management Company

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
IMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delin	eation Soil Sar	nples				
SS01D	8/19/2024	0	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS02	8/7/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS03J	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	421
SS04	8/7/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	243
SS05N	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS06	9/11/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,580
SS06	9/11/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
SS06A	9/11/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,870
SS06A	9/11/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149
SS06B	9/11/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	823
SS06B	9/11/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	290
SS06C	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	530
SS06C	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS06D	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241
SS06D	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
BH01	8/16/2024	0	< 0.0250	< 0.0500	<20.0	33.2	<50.0	33.2	33.2	39,100
BH01	8/16/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,200
BH01	8/16/2024	3	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,140
BH01	8/16/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	372
BH02	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	18,400
BH02	8/21/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,700
BH03	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,090
BH03	8/21/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.6
BH03	8/21/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	151
BH04	8/21/2024	0	< 0.0250	< 0.0500	<20.0	51.5	58.9	51.5	110.4	5,380
BH04	8/21/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
BH04	8/21/2024	4	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
BH04	8/21/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,810
BH04	8/21/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	717
BH04	8/21/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	900
BH04	8/21/2024	12 14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	971
BH04 BH04	8/21/2024 8/21/2024	16	<0.0250 <0.0250	<0.0500 <0.0500	<20.0 <20.0	<25.0 <25.0	<50.0 <50.0	<25.0 <25.0	<50.0 <50.0	1,090 744
DHU4	0/21/2024	١٥	<0.0200	VUCU.U>	<20.0	<23.0	<50.0	<20.0	<50.0	/44

Page 1



#### **SOIL SAMPLE ANALYTICAL RESULTS**

**Black River SWD 1** 

San Mateo Black River Water Management Company

**Eddy County, New Mexico** 

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delin	eation Soil San	nples				
BH04	8/21/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	501
BH05	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,830
BH05	8/21/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	402
BH06	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,320
BH06	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	348
BH07	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	12,700
BH07	8/21/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,020
BH07	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	124
BH08	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH08	8/21/2024	1	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	300
BH09	8/21/2024	0	< 0.0250	< 0.0500	<20.0	156	92.7	156	248.7	41,500
BH09	8/21/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,090
BH09	8/21/2024	4	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	593
BH09	8/21/2024	6	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	265
BH10	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,520
BH10	8/21/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	611
BH10	8/21/2024	3	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	317
BH11	8/21/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,930
BH11	8/21/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	270
BH12	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	415
BH12	8/21/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	321

#### Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





#### **SOIL SAMPLE ANALYTICAL RESULTS**

**Black River SWD 1** 

San Mateo Black River Water Management Company

**Eddy County, New Mexico** 

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Excava	tion Floor Soil S	Samples				
FS01	11/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	345
FS02	11/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	180
FS03	11/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	968
FS04	11/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	512
FS05	11/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1320
FS06	11/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1050
FS07	11/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1340
FS08	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	272
FS09	11/13/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	295
FS10	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	431
FS11	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	322
FS12	11/13/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	531
FS13	11/13/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,990
FS14	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
FS15	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,770
FS16	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,510

#### Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



#### **SOIL SAMPLE ANALYTICAL RESULTS**

Black River SWD 1

San Mateo Black River Water Management Company

**Eddy County, New Mexico** 

Sample Date Depth (feet bgs)		Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)					
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600				
				Sic	dewall Soil Samp	les								
SW01	11/13/2024	0-1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	588				
SW02	11/13/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	430				
SW03	11/13/2024	0-4	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,110				

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated "<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**APPENDIX A** 

Well Log & Record



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

## STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

2018 NOV -5 PH 1: 46

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AND WELL LOCATION					I.	D 2215	7		C-42	الح	
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	10/10	// 8	10170170	$\alpha u$	<del>/</del>			<i>U</i>		EL IN COMPLETED W	ELL (FT)
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Ň	DEPTH	(feet bgl)	BORE HOLE	CASING	MATEI	RIAL AND/OR	C.	ASING	CASING	CASING WALL	SLOT
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SIN			(inches)			ing string, and of screen)	(add count	YPE ling diameter)	(inches)	(inches)	(inches)
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T		(feet bgl)	BORE HOLE DIAM. (inches)			TULAR SEAL MA .CK SIZE-RANG			AMOUNT (cubic feet)	METHO PLACE	
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FOR	OSE INTER	NAL USE						WR-20	WELL RECORD	& LOG (Version 06/3	30/17)
FILE			.81			POD NO.		TRN N		1587	]
<u> </u>	ATION		38E.3	511.	4-	a	Т.	L TAG II	<u> </u>	PAGE	1 OF 2
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# STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

WELL TAG ID NO.

PAGE 2 OF 2

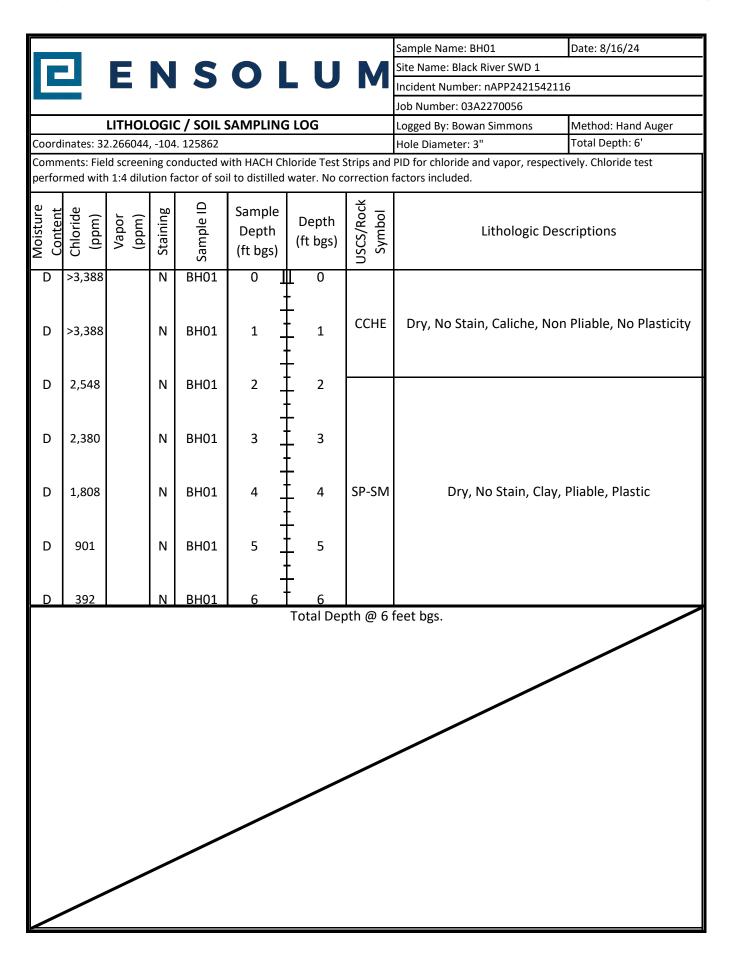
	DEPTH (	feet bgl)		COLORA	ND TVDE OF	MATERIAL ENCO	MINITEREN			ESTIMATED
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TURE	CORRECT F	RECORD OF	THE ABOVE D	IES THAT, TO THE I ESCRIBED HOLE AT D DAYS AFTER COM	ND THAT HE	OR SHE WILL FI	LE THIS WELL RE			
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9	100	SIGNATI	RE OF DRIFT E	R / PRINT SIGNEE	NAME		_//		<i>O</i> Date	
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	OSE INTERI				· · · · · · · · · · · · · · · · · · ·		<del></del>	L RECORD & L	OG (Ver	sion 06/30/2017)
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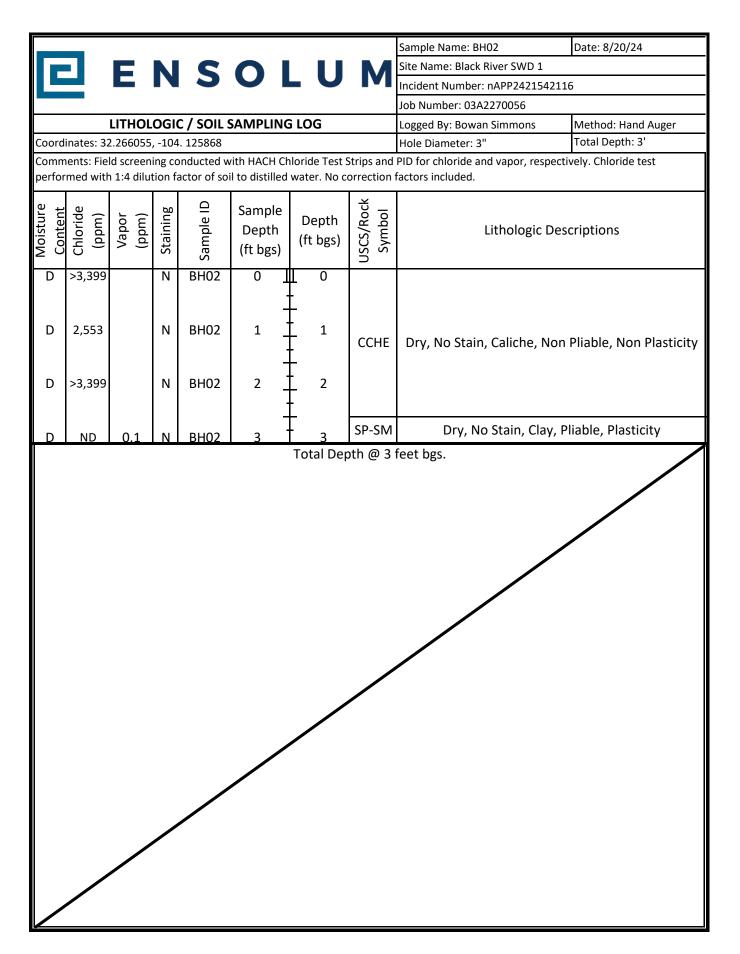
LOCATION

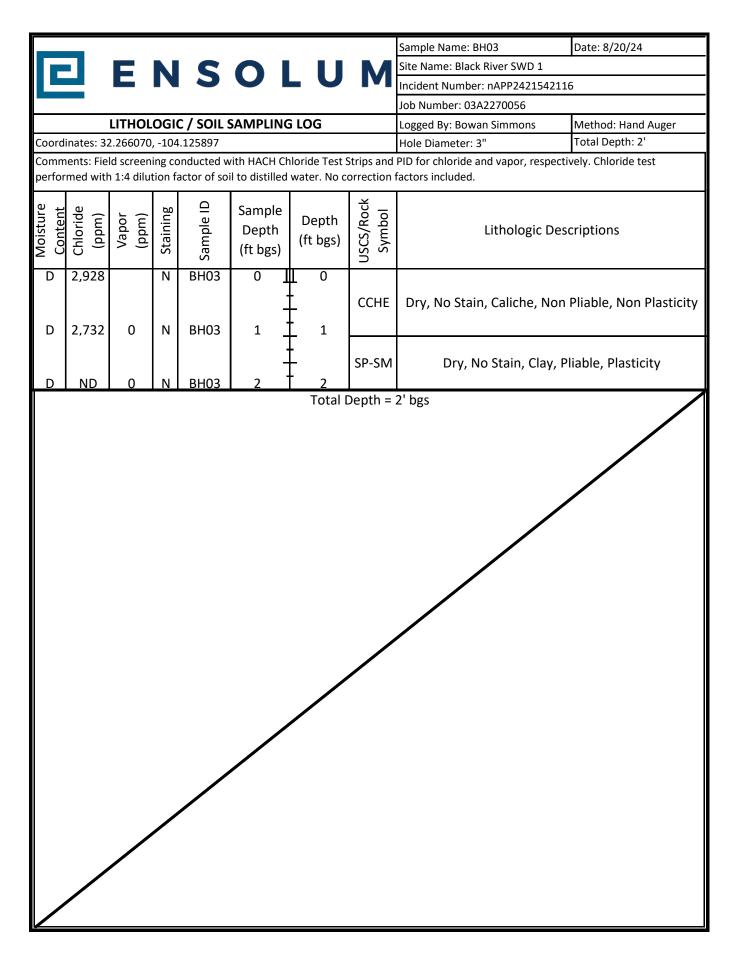


**APPENDIX B** 

Lithologic Soil Sampling Logs

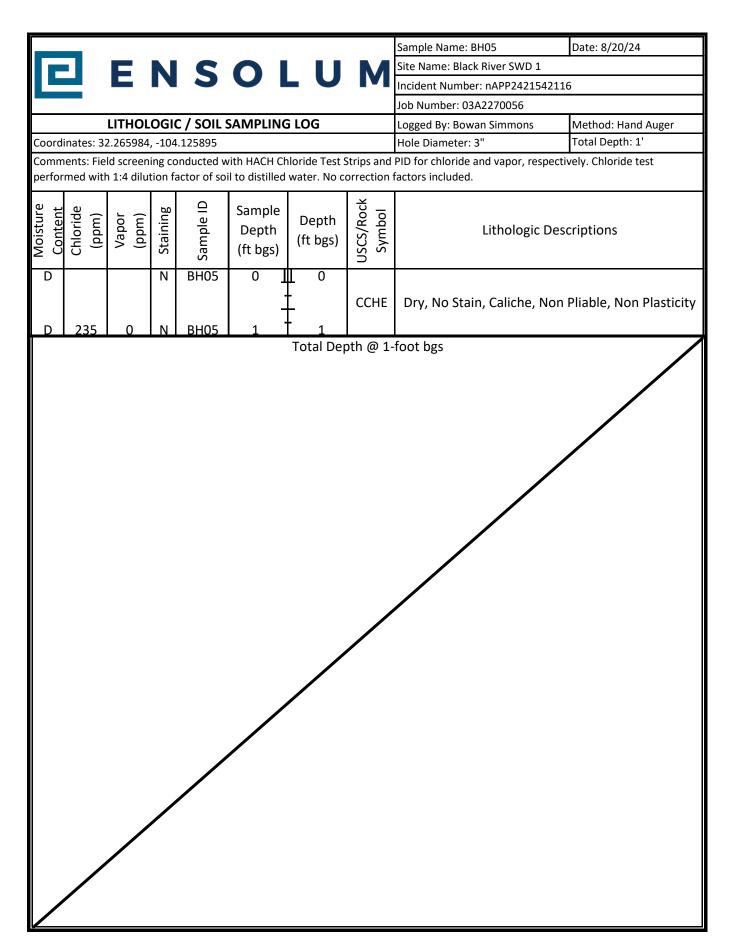


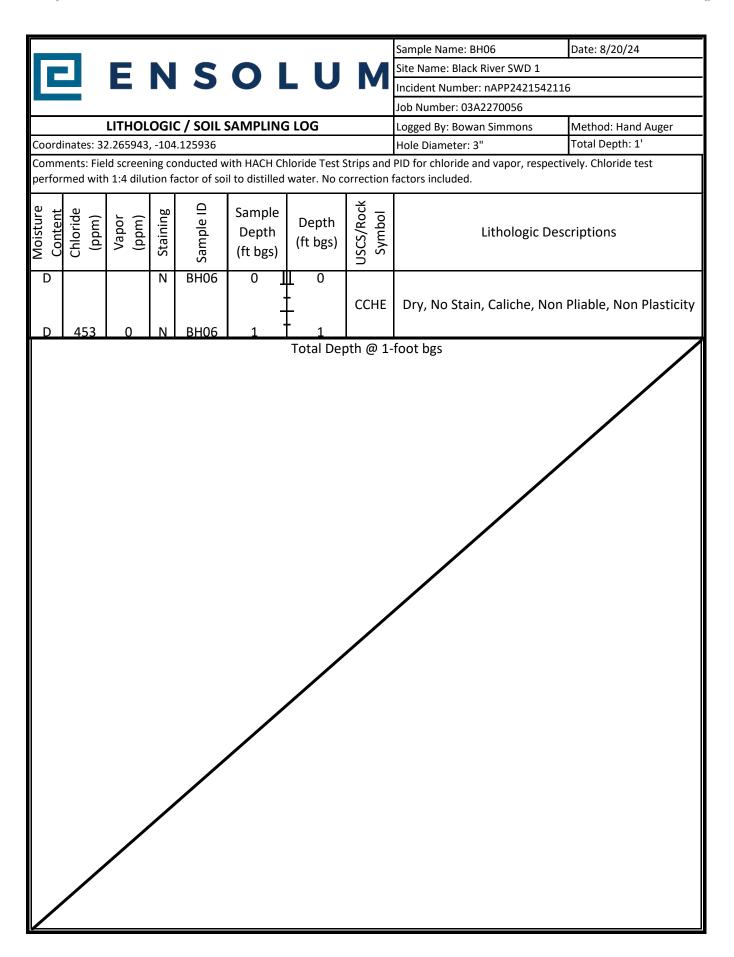


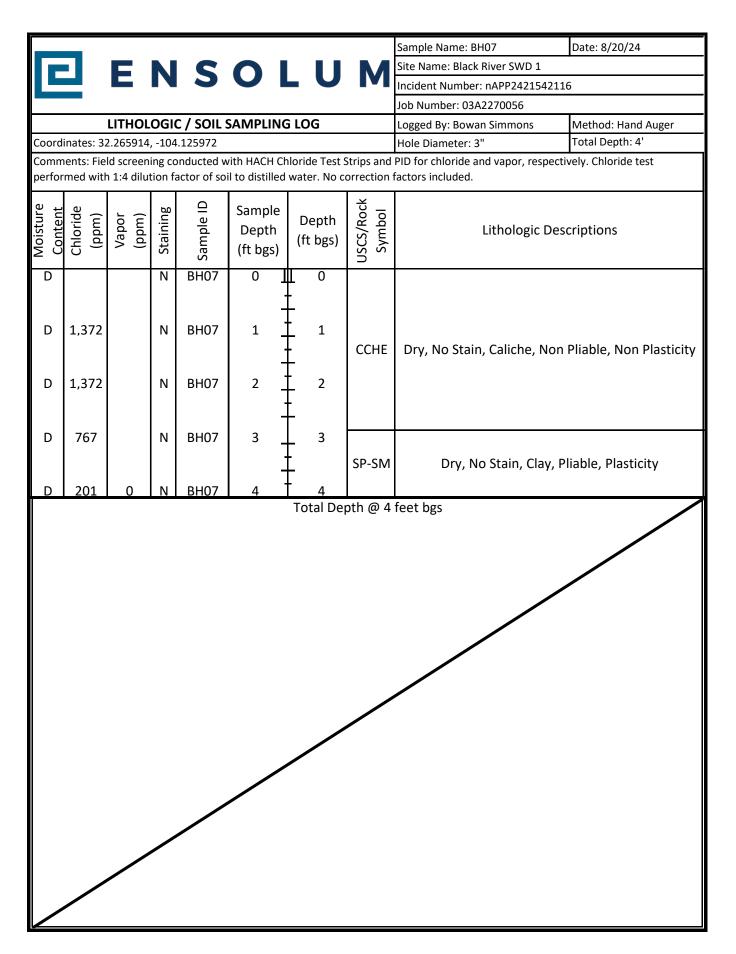


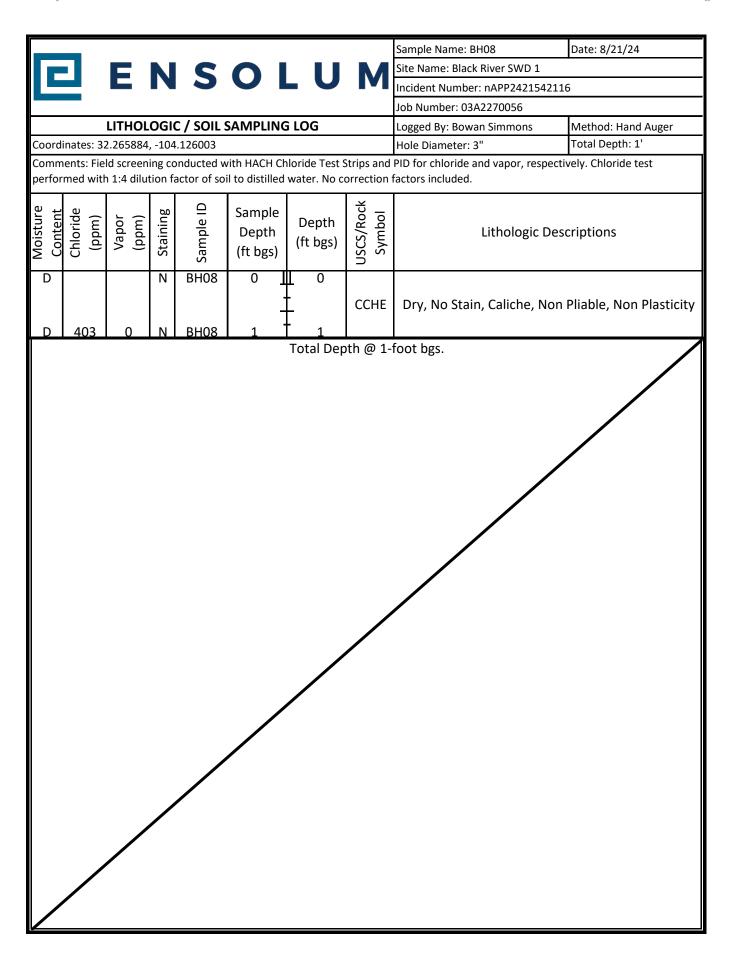
								Sample Name: BH04	Date: 8/20/24			
			NI	C		LU	RA	Site Name: Black River SWD 1				
	-					_ U		Incident Number: nAPP24215421	116			
								Job Number: 03A2270056				
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Bowan Simmons	Method: Hand Auger			
Coord	inates: 32	2.266019	, -104	. 125870				Hole Diameter: 3"	Total Depth: 18'			
			_					PID for chloride and vapor, respectators included.	ctively. Chloride test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions			
D			N	BH04	0 ]	0						
D	1,685		N	ВН04	1 _	- - - 1	ССНЕ	Dry, No Stain, Caliche, No	on Pliable, No Plasticity			
D	1,685		N	BH04	2 _	_ 2						
D	1,355		N	BH04	3 <u>-</u> 3 <u>-</u>	- - - 3						
D	1,254		N	BH04	4 _	- - 4 -						
D	2,323		N	BH04	5 <u> </u>	_ _ 5 -						
D	1,825		N	BH04	6	- _ 6						
D	1,002		N	BH04	7	- - 7	SP-SM	Dry, No Stain, Clay	, Pliable, Plastic			
D	1,002		N	BH04	8 <u>-</u> 8 <u>-</u>	- - 8 -						
D	1,086		N	BH04	9 _	- - 9						
D	1,181		N	BH04	10 _	- _ 10 -						
D	1,271		N	BH04	11 <u>-</u>	_ _ 11 -						
D	1.181	0	N	BH04	12	- 12						

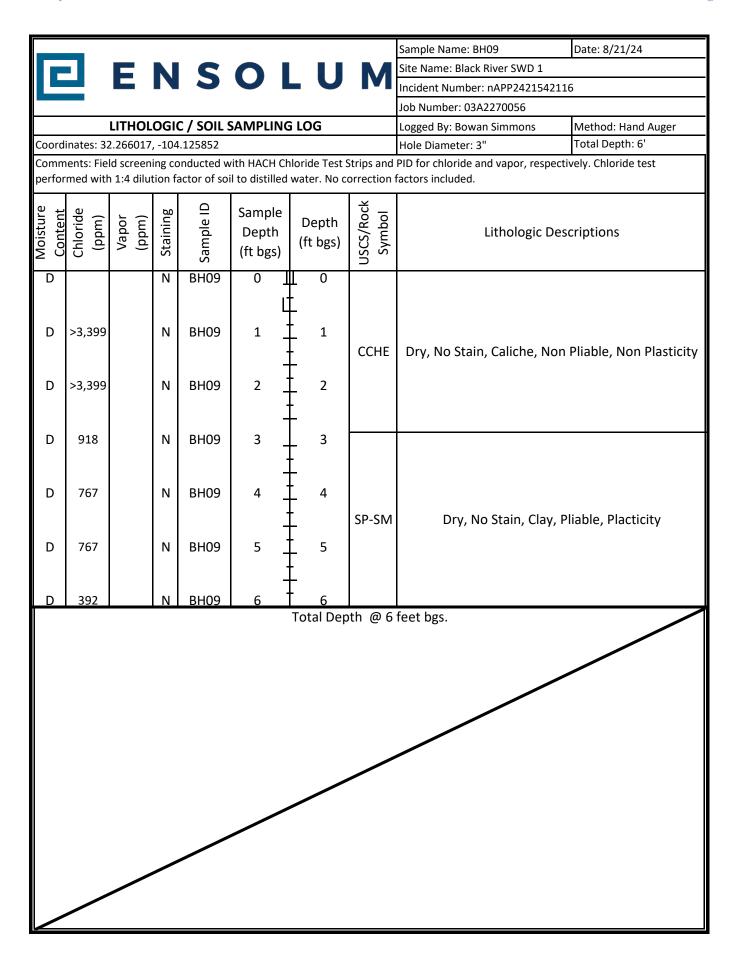
	-7							Sample Name: BH04	Date: 8/20/24			
	-		N	S		LU	M	Site Name: Black River SWD 1				
						Incident Number: nAPP2421542	2116					
						Job Number: 03A2270056						
					SAMPLING	Logged By: Bowan Simmons	Method: Hand Auger					
	linates: 32					Hole Diameter: 3"	Total Depth: 18'					
								PID for chloride and vapor, responders included.	ectively. Chloride test			
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Descriptions			
D	1,341		N	BH04	13	13						
D	1,584		N	вн04	14 _ -	- - 14 -	SP-SM	Dry, No Stain, Cla	ay, Pliable, Plastic			
D	1,181		Ν	BH04	15 _	_ 15						
D												
D	694		N	ВН04	17	- 17						
	694		N	BH04	- 18	- - 18						
U	694		IN	ВПО4	19	Total De	oth = 18	3.21 hgs				

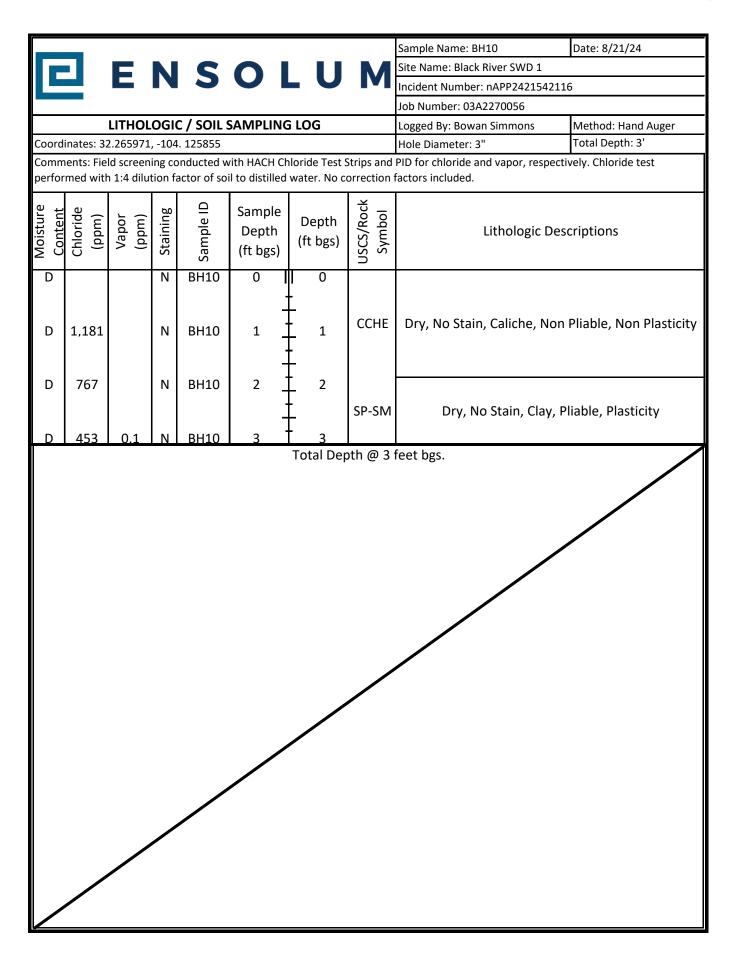


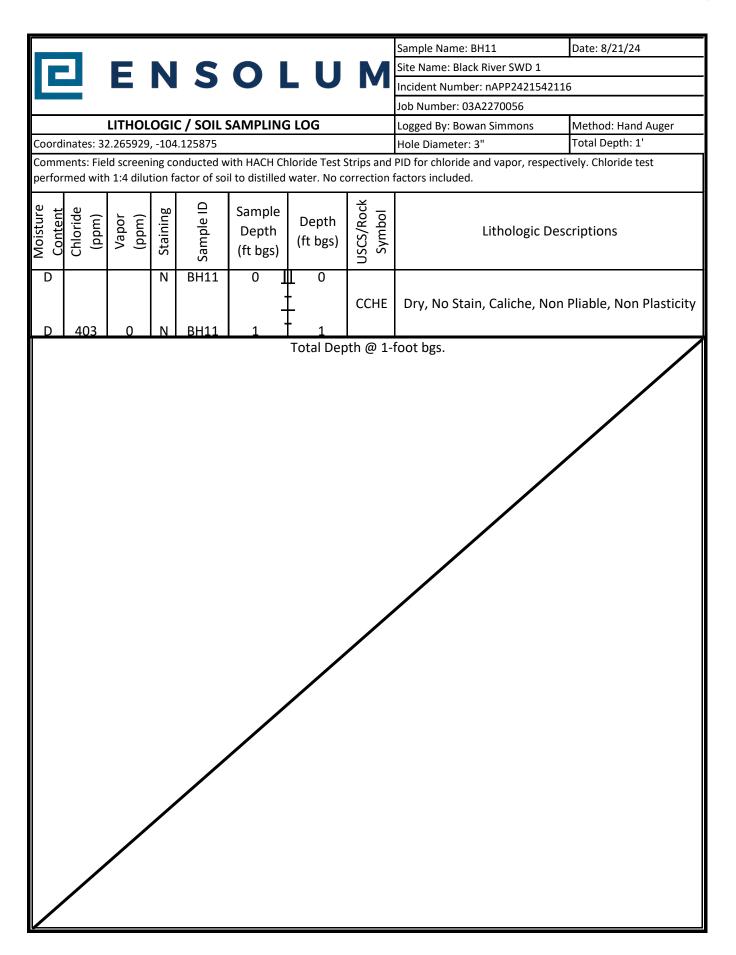


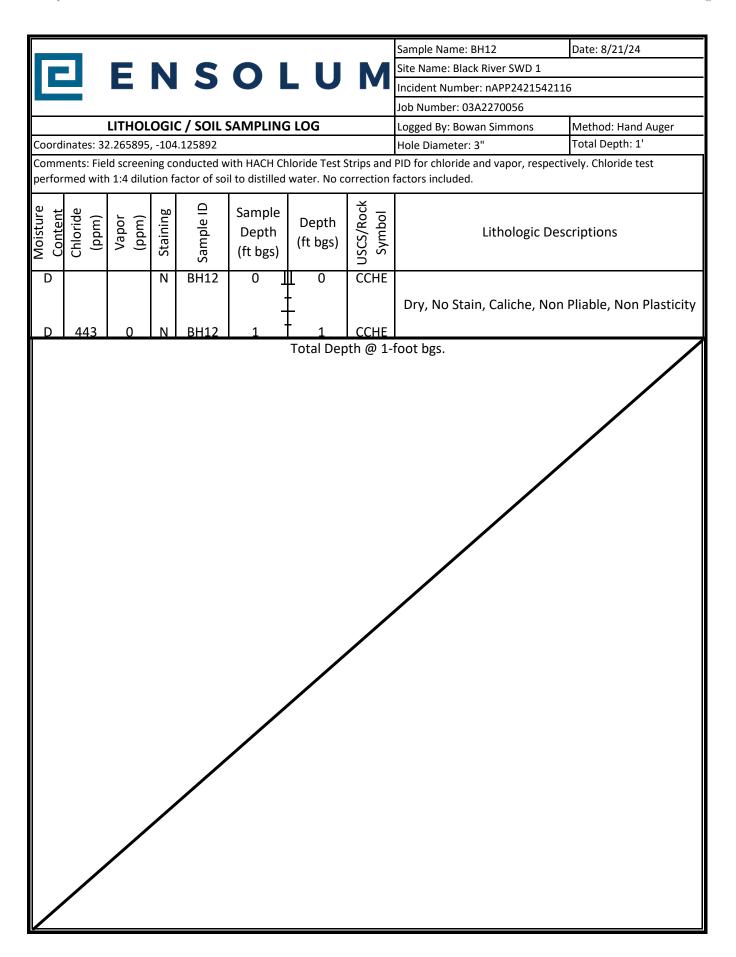


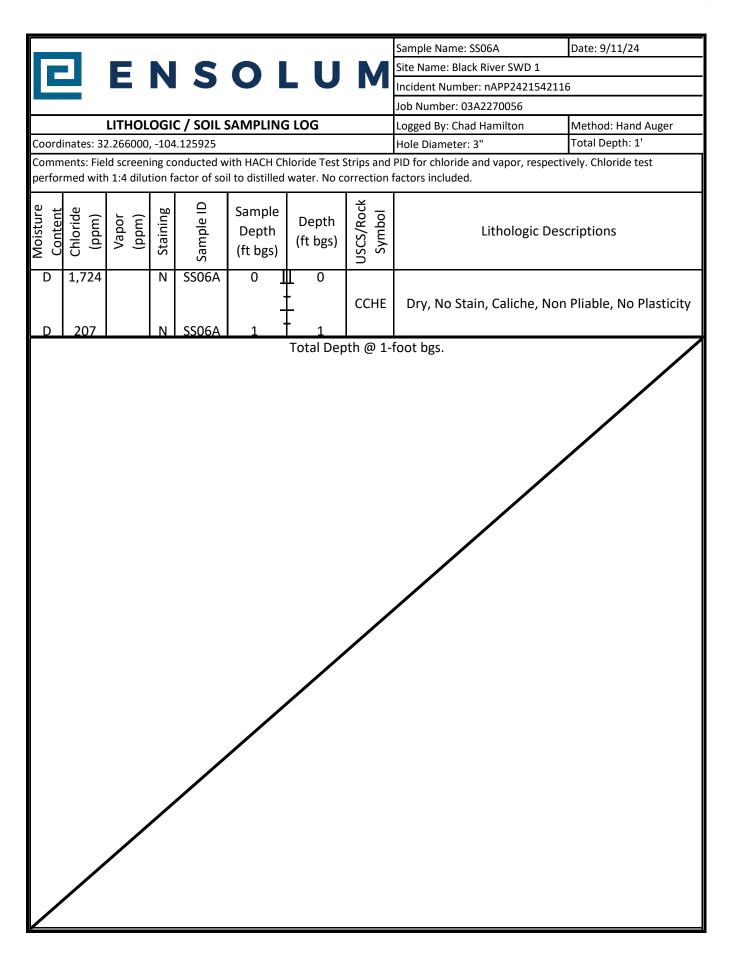


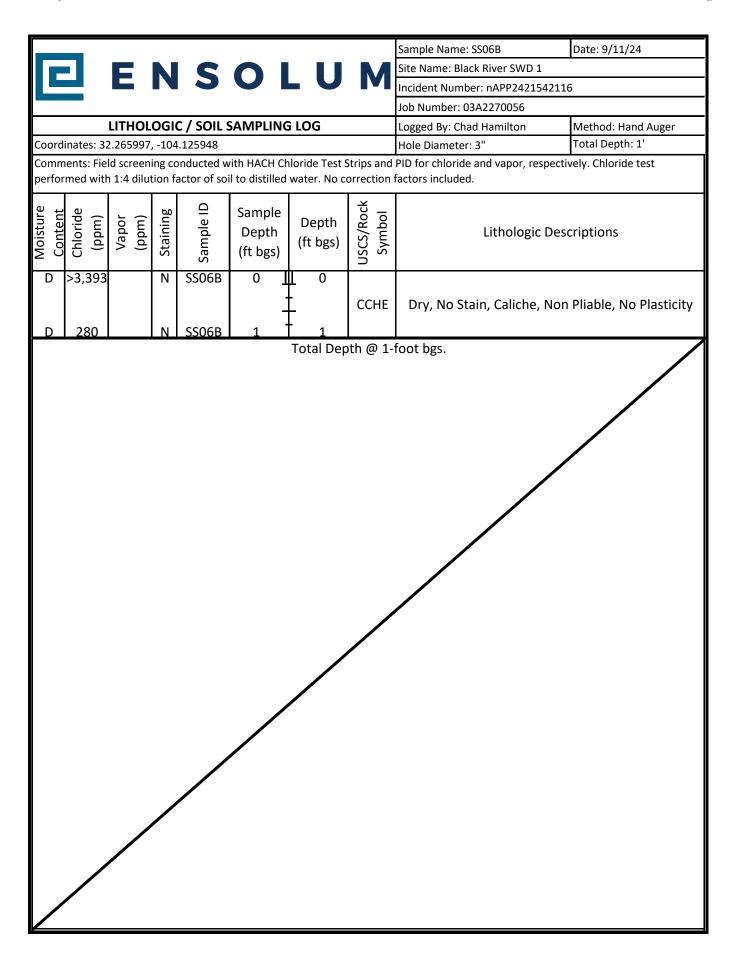


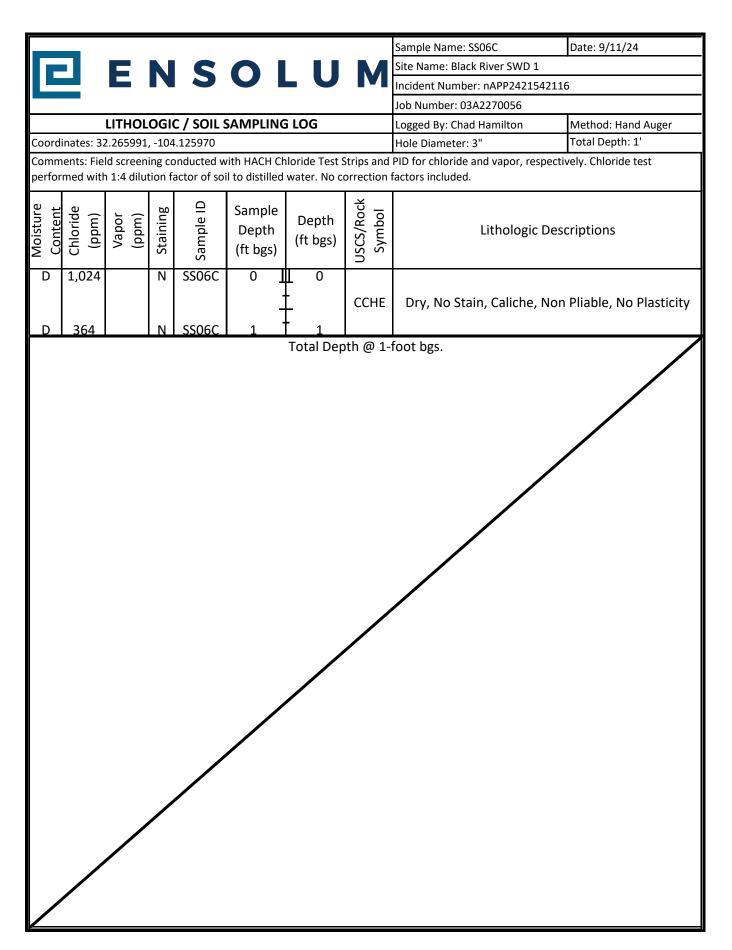


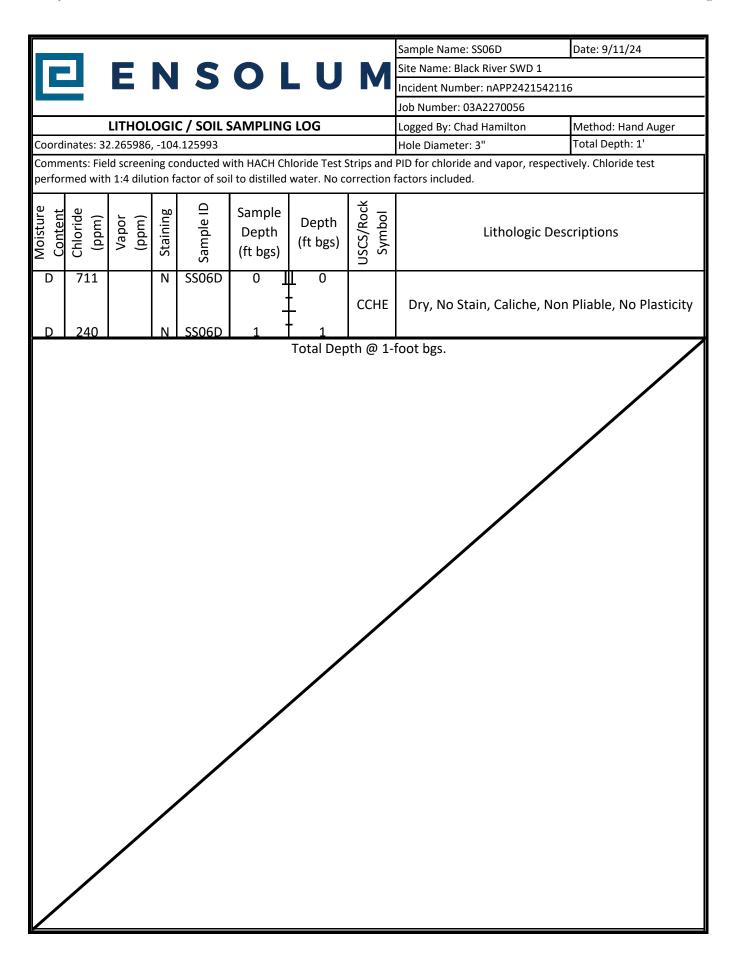














**APPENDIX C** 

Photographic Log

#### Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Date: 08/07/2024

Photograph 1 Date: 08/07/2024

Description: Release Area

View: East

Photograph 2

Description: Release Area

View: East





Photograph 3 Date: 08/07/2024 Photograph 4 Date: 08/07/2024

Description: Release Area Description: Release Area

View: East View: North

#### **Photographic Log**

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Photograph 5 Date: 08/20/2024

Description: Horizontal Delineation Sampling

View: North

Photograph 6 Date: 08/20/2024

Description: Horizontal Delineation Sampling

View: East





Photograph 7 Date: 08/21/2024

Description: Vertical Delineation Sampling (BH08)

View: North

Photograph 8 Date: 08/21/2024

Description: Vertical Delineation Sampling (BH09)

View: East

#### Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Photograph 9 Date: 09/11/2024 Description: Vertical Delineation Sampling (SS06F)

View: South

Photograph 10 Date: 09/11/2024 Description: Vertical Delineation Sampling (SS06E)

View: East





Photograph 11 Date: 09/11/2024 Description: Vertical Delineation Sampling (SS06B)

View: East

Photograph 12 Date: 08/21/2024 Description: Vertical Delineation Sampling (SS06C)

View: East

#### Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Date: 09/11/2024

Photograph 13 Date: 09/11/2024

Description: Excavation Activities

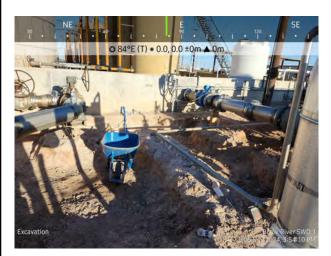
View: Northeast

Photograph 14

**Description: Excavation Activities** 

View: Northeast





Photograph 15 Date: 09/11/2024

Description: Excavation Activities

View: Northwest

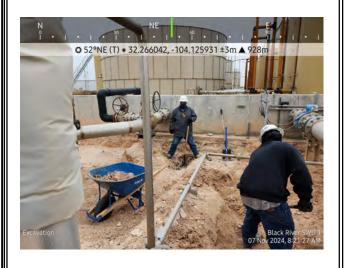
Photograph 16 Date: 08/21/2024

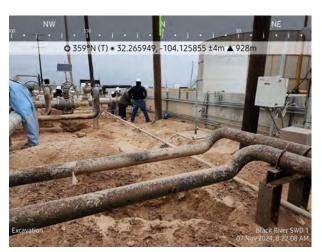
Description: Excavation Activities

View: East

#### Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Photograph 17 Date: 09/11/2024

**Description: Excavation Activities** 

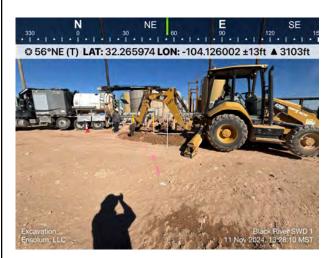
View: Northeast

Photograph 18 Date: 09/11/2024

**Description: Excavation Activities** 

View: North





Photograph 19 Date: 09/11/2024

Description: Excavation Activities

View: Northeast

Photograph 20 Date: 08/21/2024

Description: Excavation Activities

View: Northeast

#### Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Photograph 21 Date: 09/11/2024

**Description: Excavation Activities** 

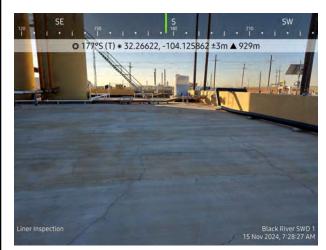
View: South

Photograph 22 Date: 09/11/2024

**Description: Excavation Activities** 

View: East





Photograph 23 Date: 11/15/2024

Description: Vertical Delineation Sampling (SS06B)

View: North

Photograph 24 Date: 11/15/2024

Description: Liner Integrity Inspection

View: South

#### Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116





Photograph 25 Date: 11/15/2024

Description: Liner Integrity Inspection

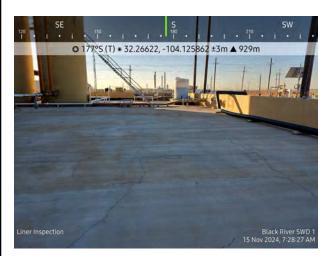
View: North

Photograph 26 Date: 11/15/2024

Description: Liner Integrity Inspection

View: Southwest





Photograph 27 Date: 11/15/2024

Description: Liner Integrity Inspection

View: North

Photograph 28 Date: 11/15/2024

Description: Liner Integrity Inspection

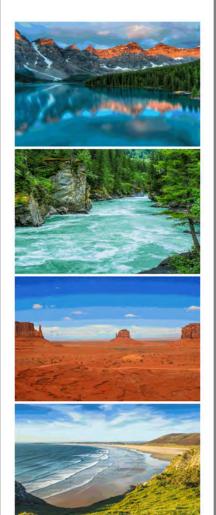
View: South



# APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Black River SWD#1

Work Order: E408087

Job Number: 23003-0002

Received: 8/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/14/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Black River SWD#1

Workorder: E408087

Date Received: 8/9/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/9/2024 6:30:00AM, under the Project Name: Black River SWD#1.

The analytical test results summarized in this report with the Project Name: Black River SWD#1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** 

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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Sample Data	5
SS02 - 0'	5
SS04 - 0'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

## **Sample Summary**

ſ	Matador Resources, LLC.	Project Name:	Black River SWD#1	Donoutoda
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/14/24 09:15

Client Sample ID	Lab Sample ID Matrix	Sampled R	Received	Container
SS02 - 0'	E408087-01A Soil	08/07/24	8/09/24	Glass Jar, 2 oz.
SS04 - 0'	E408087-02A Soil	08/07/24 08	8/09/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Black River SWD#1	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:15:37AM

SS02 - 0' E408087-01

		2100007 01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	-		Batch: 2432119
Benzene	ND	0.0250	1		08/09/24	08/09/24	Buteni 2 (2211)
Ethylbenzene	ND	0.0250	1		08/09/24	08/09/24	
Toluene	ND	0.0250	1		08/09/24	08/09/24	
o-Xylene	ND	0.0250	1		08/09/24	08/09/24	
p,m-Xylene	ND	0.0500	1		08/09/24	08/09/24	
Total Xylenes	ND	0.0250	1		08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130		08/09/24	08/09/24	
Surrogate: Toluene-d8		102 %	70-130		08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		RKS		Batch: 2432119
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130		08/09/24	08/09/24	
Surrogate: Toluene-d8		102 %	70-130		08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: I	ΚM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1		08/09/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/09/24	08/09/24	
Surrogate: n-Nonane		89.7 %	50-200		08/09/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: J	ΙΜ		Batch: 2432127
Chloride	ND	200	10	)	08/09/24	08/10/24	
Chloride	ND	200	10	J	08/09/24	08/10/24	



Matador Resources, LLC. Project Name: Black River SWD#1 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Reported: 8/14/2024 9:15:37AM Dallas TX, 75240 Project Manager: Ashley Giovengo

SS04 - 0'

		E408087-02					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2432119
Benzene	ND	0.0250	1	l	08/09/24	08/09/24	
Ethylbenzene	ND	0.0250	1	l	08/09/24	08/09/24	
Toluene	ND	0.0250	1	l	08/09/24	08/09/24	
o-Xylene	ND	0.0250	1	l	08/09/24	08/09/24	
p,m-Xylene	ND	0.0500	1	l	08/09/24	08/09/24	
Total Xylenes	ND	0.0250	1	l	08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		08/09/24	08/09/24	
Surrogate: Toluene-d8		96.8 %	70-130		08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2432119
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		08/09/24	08/09/24	
Surrogate: Toluene-d8		96.8 %	70-130		08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	KM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/09/24	08/09/24	
Surrogate: n-Nonane		95.5 %	50-200		08/09/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: .	JM		Batch: 2432127
Chloride	243	200	10	0	08/09/24	08/10/24	



Matador Resources, LLC. Project Name: Black River SWD#1

5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240 Project Manager: Ashley Giovengo 8/14/2024 9:15:37AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/14	1/2024 9:15:37AN		
	V	Volatile Organic Compounds by EPA 8260B							Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2432119-BLK1)							Prepared: 0	8/09/24 Analy	/zed: 08/09/24		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
o,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130					
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130					
LCS (2432119-BS1)							Prepared: 0	8/09/24 Analy	zed: 08/09/24		
Benzene	2.36	0.0250	2.50		94.2	70-130					
Ethylbenzene	2.42	0.0250	2.50		96.6	70-130					
Foluene	2.23	0.0250	2.50		89.1	70-130					
o-Xylene	2.42	0.0250	2.50		96.7	70-130					
p,m-Xylene	4.87	0.0500	5.00		97.4	70-130					
Total Xylenes	7.29	0.0250	7.50		97.2	70-130					
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130					
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130					
Matrix Spike (2432119-MS1)				Source:	E408085-	09	Prepared: 0	8/09/24 Analy	zed: 08/09/24		
Benzene	2.45	0.0250	2.50	ND	97.9	48-131					
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135					
Toluene	2.39	0.0250	2.50	ND	95.5	48-130					
o-Xylene	2.59	0.0250	2.50	ND	104	43-135					
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135					
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135					
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130					
Surrogate: Toluene-d8	0.505		0.500		101	70-130					
Matrix Spike Dup (2432119-MSD1)				Source:	E408085-	09	Prepared: 0	8/09/24 Analy	/zed: 08/09/24		
Benzene	2.33	0.0250	2.50	ND	93.0	48-131	5.11	23			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	0.714	27			
Toluene	2.28	0.0250	2.50	ND	91.3	48-130	4.45	24			
o-Xylene	2.66	0.0250	2.50	ND	106	43-135	2.67	27			
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135	1.80	27			
Total Xylenes	7.93	0.0250	7.50	ND	106	43-135	2.09	27			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130					
	V. / /		0.500		0.5.0	<b>50.15</b>					



0.500

70-130

0.484

Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Black River SWD#1Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/14/20249:15:37AM

	Non	halogenated	Analyst: RKS						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2432119-BLK1)							Prepared: 0	8/09/24 Analy	yzed: 08/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			
LCS (2432119-BS2)							Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			
Matrix Spike (2432119-MS2)				Source:	E408085-0	)9	Prepared: 0	8/09/24 Anal	yzed: 08/09/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	92.9	70-130				
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130				
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130				
Matrix Spike Dup (2432119-MSD2)				Source:	E408085-0	)9	Prepared: 08	/09/24 A	nalyzed: 08/09/	′24
G 1: B O : (G( G10)	45.2	20.0	50.0	ND	00.6	70.120	2.40	20		

Matrix Spike Dup (2432119-MSD2)	Source:	Source: E408085-09			Prepared: 08/09/24 Analyzed: 08/09/24			
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	2.49	20
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130		
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130		

Matador Resources, LLC.Project Name:Black River SWD#1Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/14/20249:15:37AM

	Nonha	logenated Or		Analyst: KM					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432138-BLK1)							Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			
LCS (2432138-BS1)							Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			
Matrix Spike (2432138-MS1)				Source:	E408082-	12	Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
Matrix Spike Dup (2432138-MSD1)				Source:	E408082-	12	Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	2.96	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			

Matrix Spike (2432127-MS1)

Matrix Spike Dup (2432127-MSD1)

Chloride

Chloride

283

283

Prepared: 08/09/24 Analyzed: 08/10/24

Prepared: 08/09/24 Analyzed: 08/10/24

20

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Black River SWD#1 Project Number: 23003-0002							Reported:
Dallas TX, 75240		Project Manager	: A	shley Gioveng	go				8/14/2024 9:15:37AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432127-BLK1)						]	Prepared: 0	8/09/24 Aı	nalyzed: 08/10/24
Chloride	ND	20.0							
LCS (2432127-BS1)						]	Prepared: 0	8/09/24 Aı	nalyzed: 08/10/24
Chloride	250	20.0	250		100	90-110	·		

250

250

20.0

20.0

Source: E408083-03

Source: E408083-03

102

102

80-120

80-120

0.0523

27.4

27.4

#### QC Summary Report Comment:

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



## **Definitions and Notes**

Matador Resources, LLC.	Project Name:	Black River SWD#1	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/14/24 09:15

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 1/3/2025 11:07:54 AM

Page	of
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	Clie	nt Inform	ation			-		Invoice Information	}				La	b Us	e On	ly	Lab Use Only TAT State			T/	<b>AT</b>			State	•
Client: N	/latador Proc	luction Co	ompan	ν		7	Com	pany: Ensolum LLC	Lab WO# Job Number		1D	2D	3D	Std	NM	CO UT	TX								
	Black River						Add	ress: 3122 National Parks Hy	vý		E	108	08	7	230	<b>63</b> -	-000	ا هو				х	×		
Project N	/lanager: As	hley Giov	engo			_	City,	State, Zip: Carlsbad NM, 88	220																
Address:	3122 Natio	nal Parks	Hwy				Phor	e: <u>575-988-0055</u>	}						Ana	lysis	and	Met	hod				EP	A Progra	m
City, Stat	e, Zip: Carls	bad NM,	88220			_	Ema	il: agiovengo@ensolum.co	m														SDWA	CWA	RCRA
Phone: !	575-988-005	5						ellaneous:														'			
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Time	Date Sampled	Matrix	No. of				S	ample ID	Field	La Nun	b	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
Sampled	0/7/0004		Contain	irs .				·	1 1	Nun	nber	ä	9	ВТ	×	5	28	2	RC	<u> </u>	<u> </u>	<u> </u>	ļ		
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11:37	8/7/2024	Soil	1					5504 - 0'	1	2	_						x								
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	nal Instructio		ase CC	Bnornuas :	yens	oium.c	um, a	igiovengo@ensolum.com, i	strena	wens	Olun	ıı.cor	11, 100	ical(	yens	υiuΠ	i.cor	n, cn	diiill	rong	P 6112	Jiun	n.com,		
	ns@ensolun		d authont	icity of this can	nnle	l am awar	e that 1	ampering with or intentionally mislabe	ing the sa	mole lo	ocation	date	or time	e of co	llectio	n is co	nsider	ed frau	ıd and	may h	e grou	nds for	r legal action.		
1	:Brandon Deal	-		icity 01 till3 3011								,								, -					
	ed by: (Signatu			ate .	Tir	me	ľ	Received by: (Signature)	Date			Time					Sampl	es requ	iring th	ermal	preserva	ation m	ust be received	on ice the da	y they are
111	11/	,	- 14	08/8/24	4 6	me 1:30 •	~ ^ \	Reflication Tonzale	8 8	8.2	14	100	130		ľ					packed	l in ice a	at an av	g temp above 0	but less than	6°C on
Red Coulsh	ed by ASignato	re)		ate 8-24		me 164	5	Received by: (Signature)		8.1		Time	14	5			Lab Use Only  Received on ice: (Y)/ N								
Relinquish	ed by: (Signatu	re)		3.B.L4		400		Received by: (Signature)	Date		•	Time	30	)			<u>T1</u>				T2			<u>T3</u>	
Relinquish	ed by: (Signatu	re)		ate	Tir	me		Received by: (Signature)	Date			Time	<del>- 7</del>				AVG	Ten	np°(	 :	 (	-			
	AVG Temp °C     AVG Temp °C   AVG Temp °C   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																								
								rrangements are made. Hazardous										e clie	nt exp	ense.	The r	eport	for the anal	ysis of the	above
Isamples is	applicable only	v to those s	amples	received by t	he la	boratory	with ti	his COC. The liability of the laborat	ory is lim	ited to	the a	mour	nt paid	d for c	on the	repo	rt.								





Printed: 8/9/2024 8:50:56AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

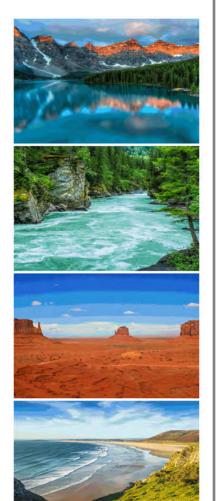
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Bhone: (972.371-520)	Client:	Matador Resources, LLC.	Date Received:	08/09/24	06:30	Work Order ID:	E408087
Emile   giovago/demolum.com   Due Due   Due Due Due Due Due Due Due Due Due Due	Phone:	(972) 371-5200	Date Logged In:	08/09/24	07:01	Logged In By:	Noe Soto
Does the sample ID match the COC?   2 Does the number of sampling site location match the COC   2 Does the number of sampling site location match the COC   3 Wers amplies dopped off by client or carrier?   4 Wiss the COC complete, i.e., signatures, dates/times, requested analyses?   5 Were all samples received within bolding times?   5 Were all samples received within bolding times?   5 Were all samples received within bolding times?   6 Did the COC indicate standard TAT, or Expedited TAT?   7 Was a sample Cooler received?   8 Wes the Sample Cooler received?   9 Was the sample (so preceived?   Yes   Sample Cooler received in good condition?   9 Was the sample (so preceived intact, i.e., not broken?   10 Were causted/ysecurity seals present?   10 Were causted/ysecurity seals present?   10 Were causted/ysecurity seals present?   11 Mey sample samples of sampling in seal to present of samples are received with 15 minuted of sampling of sampling in seal to your shape of sample of sample solented in the correct containers?   1 A rea agneeus VOC samples collected in VOA valis?   2 Na a trip blank (TB) included for VOC analyses?   3 Na	Email:	agiovngo@ensolum.com		08/15/24	17:00 (4 day TAT)		
Does the sample ID match the COC?   2 Does the number of sampling site location match the COC   2 Does the number of sampling site location match the COC   3 Wers amplies dopped off by client or carrier?   4 Wiss the COC complete, i.e., signatures, dates/times, requested analyses?   5 Were all samples received within bolding times?   5 Were all samples received within bolding times?   5 Were all samples received within bolding times?   6 Did the COC indicate standard TAT, or Expedited TAT?   7 Was a sample Cooler received?   8 Wes the Sample Cooler received?   9 Was the sample (so preceived?   Yes   Sample Cooler received in good condition?   9 Was the sample (so preceived intact, i.e., not broken?   10 Were causted/ysecurity seals present?   10 Were causted/ysecurity seals present?   10 Were causted/ysecurity seals present?   11 Mey sample samples of sampling in seal to present of samples are received with 15 minuted of sampling of sampling in seal to your shape of sample of sample solented in the correct containers?   1 A rea agneeus VOC samples collected in VOA valis?   2 Na a trip blank (TB) included for VOC analyses?   3 Na							
2. Does the number of samples pret samplings ine location match the COC  3. Were samples dropped off by client or carrier?  4. Was the COC complete, i.e., signatures, datestimes, requested analyses?  5. Were all samples received within holding time?  6. Note Analysis, such as play which shoulde for methods in the dissession.  5. Bamble Turn Arnoul Timer CTAP  6. Did the COC indicate standard TAT, or Expedited TAT?  7. Did the COC indicate standard TAT, or Expedited TAT?  8. If yes, was cooler received?  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample (specieved in good condition?  10. Were custody/security seals present?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was the sample received on it yes, the recorded temp is 4°C, i.e., 6°=2°C  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct cuntainers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Date Time Collected?  10. Were field sample labels filled out with the minimum information:  10. Were field sample labels filled out with the minimum information:  11. The Collectors name?  12. Does the COC or field labels indicate the samples were preserved?  13. Is lab filleration required and/or requested for dissolved metals?  14. As a sample (S) correctly preserved?  15. As a sample sample have more than one phase, i.e., multiphase?  16. Does the sample have more than one phase, i.e., multiphase?  17. Was a trip blank (TB) included for VOC analyses?  18. If yes, does the COC specify which phase(s) is to be analyzed?  18. If yes, does the COC specify shich phase(s) is to be a	Chain of	Custody (COC)					
3. Were samples dropped off by client or earrier?         Yes         Carrier: Courier           4. Was the COC complete, i.e., signatures, dates/times, requested analyse?         Yes           5. Were all samples received within holding time?         Yes           6. Did the COC dindicate standard TAT, or Expedited TAT?         Yes           6. Did the COC dindicate standard TAT, or Expedited TAT?         Yes           8. If yes, was cooler received?         Yes           9. Was the sample(s) received intact, i.e., not broken?         Yes           10. Were custody/security seals intact?         Yes           12. Was the sample received on itse? if yes, the recorded temp is 4°C, i.e., 6°42°C. Not: Thermal preservation is not required, if samples are received wit 15 minutes of sampling.         Yes           13. If not visible i.e., record the temperature. Actual sample temperature: 4°C         Yes           8. Ample Container         NA           14. Are aqueous VOC samples present?         NA           15. Are VOC samples collected in VOA Vials?         NA           16. Is the bend space less than 6-8 mm (pea sized or tess)?         Yes           19. Is the part point of the correct containers?         Yes           19. Is the part point of the correct containers?         Yes           19. Is the part point of the correct containers?         Yes           20. Were field sample labels filled out	1. Does th	he sample ID match the COC?		Yes			
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  5. Were all samples received within holding time?  Note Analysis, and: as pill which should be conduced in the field, i.e., 15 minute hold time, are not included in this discussion.  Sample Turn Around Time (TAD)  6. Did the COC indicate standard TAT, or Expedited TAT?  7. Was a sample cooler received?  8. If yes, was cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample's proceived in direct, i.e., not broken?  10. Were custody/security scals present?  11. If yes, were custody/security scals intact?  12. Was the sample received on item of the temperature. Actual sample temperature: 4°C  Sample Container  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip Shank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Use the sample labels filled out with the minimum information:  Sample ID?  Date Time Collected?  Collectors ame?  10. Date The Collected?  10. Sample Preservation  11. If yes, does the COC or field labels indicate the samples were preserved?  No  Multiphase Cample Martri.  20. Were field sample Martri.  21. Lose is smaple have more than one phase, i.e., multiphase?  No  Multiphase Sample Marter than the more than one phase, i.e., multiphase?  10. Destination required and/or requested for dissolved metals?  No  Multiphase Temperature and or requested for dissolved metals?  No  Shibentract Laboratory  As a subcontract Laboratory specified by the client and if so who?  No  Shibentract Laboratory specified by the client and if so who?  No  Shibentract Laboratory specified by the client and if so who?  No  Shibentract Laboratory specified by the client and if so who?  No  Shibentract Laboratory specified by the client and if so who?  No  Shibentract La	2. Does th	he number of samples per sampling site location ma	tch the COC	Yes			
5. Were all samples received within holding time?  Notes Analysis, soath as if which should be conducted in the field, i.e., 15 minute hold time, are not included in this dissession.  Sample Turn Around Time (TAIT)  Sample Cooler.  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample (s) received intact, i.e., not broken?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is \$\psi^*C, i.e., 6\psi^*2\psi^*C  Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling  13. If no visible ice, received the temperature. Actual sample temperature: \$\psi^*C  Sample Container  14. Are aqueous VOC samples presern?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pen sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  20. Were field sample labels filled out with the minimum information:  Sample IP?  21. Date Time Collected?  22. Are sample Occorded preserved?  22. Are sample Occorded in the correct containers?  23. La lab filteration required and/or requested for dissolved metals?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample have more than one phase, i.e., multiphase?  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are sample part equired to get sent to a subcontract laboratory?  28. Are sample have more than one phase, i.e., multiphase?  29. Was a subcontract Laboratory.  20. Was a subcontract Laboratory specified by the client and if so who?  20. Was a subcontract Laboratory specified by the client and if so who?  20. Was a subcontract Laboratory specified by the client and if so who?  20. Was a subcontrac	3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier	•	
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6. Did the COC indicate standard TAT, or Expedited TAT?         Yes           Sample Cooler         Yes           7. Was a sample cooler received?         Yes           8. If yes, was cooler received in good condition?         Yes           9. Was the sample (s) received intact, i.e., not broken?         Yes           10. Were custody/security seals intact?         No           11. If yes, were custody/security seals intact?         Na           12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C         Yes           No: Thermal preservation is not required, if samples are received wii 15 minutes of sampling         No           13. If no visible ice, record the temperature. Actual sample temperature: 4°C         No           5. Are VOC samples collected in VOA Vials?         No           14. Are aqueous VOC samples present?         No           15. Are VOC samples collected in VOA Vials?         NA           16. Is the head space less than 6-8 mm (pea sized or less)?         NA           17. Was a trip blank (TB) included for VOC analyses?         NA           18. Are non-VOC samples collected in the orrect containers?         Yes           19. Is the appropriate volume/weight or number of sample containers collected?         Yes           10. Were field sample labels filled out with the minimum information:         Yes           Sample T	Sample T	· · · · · · · · · · · · · · · · · · ·					
Sample Cooler         Yes           7. Was a sample cooler received?         Yes           8. If yes, was cooler received in good condition?         Yes           9. Was the sample (s) received intact, i.e., not broken?         Yes           10. Were custody/security seals present?         No           11. If yes, were custody/security seals intact?         NA           12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C         Yes           Note: Thermal preservation is not required, if samples are received wit 15 mills and preservation is not required, if samples are received wit 15 mills of sampling in the sample reservation is not required, if sample temperature: 4°C         Yes           Sample Container         No           15. Are VOC samples collected in VOA Vials?         NA           16. Is the head space less than 6-8 mm (pea sized or less)?         NA           17. Was a trip blank (TB) included for VOC analyses?         NA           18. Are non-VOC samples collected in the correct containers?         Yes           19. Is the appropriate volume/weight or number of sample containers collected?         Yes           20. Were field sample labels filled out with the minimum information:         Yes           22. Are sample(s) correctly preserved?         NA           21. Does the COC or field labels indicate the samples were preserved?         NA           24. Is l				Yes			
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Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No  22. Are sample(s) correctly preserved? No  4. Is lab filteration required and/or requested for dissolved metals? No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  7. If yes, does the COC specify which phase(s) is to be analyzed? No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  No Subcontract Labiratory specified by the client and if so who? No Subcontract Labiratory Subcontract Labiratory Subcontract Labiratory Subcontract Labiratory No No Subcontract Labiratory Specified by the client and if so who? No Subcontract Labiratory Subcontract Labiratory Subcontract Labiratory No No Subcontract Labiratory No N							
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			-				
Client Instruction	29. was a	i subcontract laboratory specified by the client and i	I so wno?	NA	Subcontract Lab: NA		
	Client I	<u>nstruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E408171

Job Number: 23003-0002

Received: 8/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/26/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/26/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E408171

Date Received: 8/20/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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## Sample Summary

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Donoutoda
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/26/24 15:04

Client Sample ID	Lab Sample ID Matrix	Sampled Rec	eived Container
BH01-0'	E408171-01A Soil	08/16/24 08/2	20/24 Glass Jar, 2 oz.
BH01-1'	E408171-02A Soil	08/16/24 08/2	20/24 Glass Jar, 2 oz.
BH01-3'	E408171-03A Soil	08/16/24 08/2	20/24 Glass Jar, 2 oz.
BH01-6'	F408171-04A Soil	08/16/24 08/2	20/24 Glass Jar. 2 oz.



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/26/2024 3:04:16PM

### BH01-0' E408171-01

		12400171-01				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: RKS	<u> </u>	Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		108 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		108 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: NV		Batch: 2434026
Diesel Range Organics (C10-C28)	33.2	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		114 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: JM		Batch: 2434037
Chloride	39100	2000	100	08/20/24	08/21/24	•



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/26/2024 3:04:16PM

### BH01-1' E408171-02

Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	•	-	Batch: 2434039
Benzene	ND	0.0250		1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250		1	08/20/24	08/22/24	
Toluene	ND	0.0250		1	08/20/24	08/22/24	
o-Xylene	ND	0.0250		1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500		1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250		1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130		08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130		08/20/24	08/22/24	
Surrogate: Toluene-d8		106 %	70-130		08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130		08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130		08/20/24	08/22/24	
Surrogate: Toluene-d8		106 %	70-130		08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434026
Diesel Range Organics (C10-C28)	ND	25.0		1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/20/24	08/22/24	
Surrogate: n-Nonane		117 %	50-200		08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2434037
Chloride	5200	200		10	08/20/24	08/21/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/26/2024 3:04:16PM

### BH01-3' E408171-03

Analyte	Result	Reporting Limit	Dil	lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg	Di	Analyst		r mary zea	Batch: 2434039
Volatile Organic Compounds by EPA 8260B		0.0250		1	08/20/24	08/22/24	Batch. 2434039
Benzene	ND			1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250		1	08/20/24	08/22/24	
Toluene	ND	0.0250		1		08/22/24	
o-Xylene	ND	0.0250		1	08/20/24		
p,m-Xylene	ND	0.0500		1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250		1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		111 %	70-130		08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130		08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		111 %	70-130		08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130		08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434026
Diesel Range Organics (C10-C28)	ND	25.0		1	08/20/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/20/24	08/21/24	
Surrogate: n-Nonane		120 %	50-200		08/20/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2434037
Chloride	2140	40.0		2	08/20/24	08/21/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/26/2024 3:04:16PM

### BH01-6' E408171-04

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		107 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		107 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2434026
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/21/24	
Surrogate: n-Nonane		125 %	50-200	08/20/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2434037
Chloride	372	20.0	1	08/20/24	08/21/24	



Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported: Project Number: 3122 National Parks Hwy. 23003-0002 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/26/2024 3:04:16PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2434039-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.579 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.427 0.500 85.4 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.545 LCS (2434039-BS1) Prepared: 08/20/24 Analyzed: 08/21/24 2.28 0.0250 2.50 91.1 70-130 Benzene 2.42 2.50 70-130 96.9 Ethylbenzene 0.0250 2.51 0.0250 2.50 100 70-130 70-130 2.66 0.0250 2.50 106 o-Xylene 5.32 106 70-130 p,m-Xylene 0.0500 5.00 7.98 0.0250 7.50 106 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.572 0.500 114 70-130 0.500 90.2 70-130 Surrogate: 1,2-Dichloroethane-d4 0.451 70-130 Surrogate: Toluene-d8 0.500 0.536 Matrix Spike (2434039-MS1) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24 2.28 0.0250 2.50 ND 91.0 48-131 45-135 Ethylbenzene 2.39 0.0250 2.50 ND 95.6 99.1 48-130 Toluene 2.48 0.0250 2.50 ND 2.62 0.0250 2.50 ND 105 43-135 o-Xylene 5.25 ND 105 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 7.87 0.0250 7.50 ND 105 43-135 0.565 0.500 113 70-130 Surrogate: Bromofluorobenzene 0.500 94.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.472 70-130 0.533 0.500 Surrogate: Toluene-d8 Matrix Spike Dup (2434039-MSD1) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24 2.23 0.0250 2.50 ND 89.3 48-131 1.93 23 2.36 0.0250 2.50 ND 94.4 45-135 1.35 27 Ethylbenzene ND 97.4 48-130 1.65 24 2.44 2.50 Toluene 0.0250



2.61

5.15

7.76

0.564

0.469

0.530

0.0250

0.0500

0.0250

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

105

103

103

113

93.8

43-135

43-135

43-135

70-130

70-130

70-130

0.325

1.92

1.39

27

27

27

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

## **QC Summary Data**

Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported:

3122 National Parks Hwy. Carlsbad NM, 88220		Project Number: Project Manager:		3003-0002 shley Giovengo	,			8	/26/2024 3:04:16PN
, , , , , , , , , , , , , , , , , , ,	Non	nhalogenated C				RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434039-BLK1)							Prepared: 0	8/20/24 An	alyzed: 08/21/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			
LCS (2434039-BS2)							Prepared: 0	8/20/24 An	alyzed: 08/21/24
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.3	70-130			
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			
Matrix Spike (2434039-MS2)				Source: E	408168-	04	Prepared: 0	8/20/24 An	alyzed: 08/21/24
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Gurrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			
Matrix Spike Dup (2434039-MSD2)				Source: E	408168-	04	Prepared: 0	8/20/24 An	alyzed: 08/21/24
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130	10.2	20	
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			

0.500

0.500

0.468

0.555

93.5

111

70-130

70-130



San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo8/26/20243:04:16PM

Carisbad IVIVI, 86220		0/20/2021 3.01.10111							
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434026-BLK1)							Prepared: 0	8/20/24 Ana	lyzed: 08/21/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			
LCS (2434026-BS1)							Prepared: 0	8/20/24 Ana	lyzed: 08/21/24
Diesel Range Organics (C10-C28)	196	25.0	250		78.4	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			
Matrix Spike (2434026-MS1)				Source:	E408164-	01	Prepared: 0	8/20/24 Ana	lyzed: 08/21/24
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.1	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			
Matrix Spike Dup (2434026-MSD1)				Source:	E408164-	01	Prepared: 0	8/20/24 Ana	lyzed: 08/21/24
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.7	38-132	0.563	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			

San Mateo Black River Water Manage	Project Name: Black River SWD1							Reported:	
3122 National Parks Hwy. Carlsbad NM, 88220		Project Number: Project Manager:	3003-0002 Ishley Gioveng				8/26/2024 3:04:16PM		
		Anions	by EPA	300.0/9056	<b>A</b>				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434037-BLK1)							Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	ND	20.0							
LCS (2434037-BS1)							Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	254	20.0	250		101	90-110			
<b>Matrix Spike (2434037-MS1)</b>				Source:	E408168-	08	Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2434037-MSD1)				Source:	E408168-	08	Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	256	20.0	250	ND	102	80-120	0.105	20	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

ſ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/26/24 15:04

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

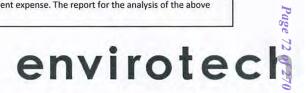
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



	Clier	nt Inform	ation 7	7		Invoice Informatio	n	10	U		La	b Us	e On	ly				TA	AT	State		
Client: _1	Matader Prod	uction Co	ompany		SO C	ompany: Ensolum LLC	1								lob Number				3D Std	MM CO U		T TX
Project:	Airstrip Fee C	om #1H	ROW	Black	A	ddress: 3122 National Parks			E	108	IJI		23	00	3-0	2000			X	X		
Project N	Manager: Asl	nley Giov	engo K	-ivers	C	ity, State, Zip: Carlsbad NM, 8	38220															
	3122 Nation					none: 575-988-0055							Ana	lysis	and	Met	hod			E	PA Progra	am
City, Stat	te, Zip: Carlsl	oad NM,	88220		E	mail: agiovengo@ensolum.	com						TR							SDWA	CWA	RCRA
Phone:	575-988-0055	5			M	iscellaneous:																
Email: a	giovengo@ei	nsolum.c	om					_		8015	8015									Compliar		or N
-				Sam	ple Informat	tion		_		by 80		021	760	Chloride 300.0	Σ	¥.	RCRA 8 Metals			PWSID #		
Time		V.50	No. of	1	pic imornia	A CONTRACTOR OF THE PARTY OF TH	0		Lab	DRO/ORO by	GRO/DRO by	BTEX by 8021	by 8.	ride	BGDOC - NM	TCEQ 1005 - TX	18 M				Remarks	5
Sampled	Date Sampled	Matrix	Containers			Sample ID	Fie	Nu	Lab mber	DRO,	GRO,	BTEX	VOC by 8260	Chlor	BGD	TCEQ	RCR/				1101110121	
9:57	8/16/2024	Soil	1			BH01 - 0'									X							
10:00	8/16/2024	Soil	1			BH01 - 1'			2						х							
10:43	8/16/2024	Soil	1			BH01 - 3'		1	3						х							
11:07	8/16/2024	Soil	1			BH01 - 6'		ι	1						х							
	nal Instructions@ensolum		ase CC: c	burton@e	ensolum.con	n, agiovengo@ensolum.com,	iestrella	@en	solun	n.con	n, bd	eal@	enso	olum	i.con	n, ch	amilt	on@	ensolum	.com,		
I, (field sam		validity and		ty of this samp	ole. I am aware ti	nat tampering with or intentionally misla	peling the sa	mple	location	, date	or time	of co	llection	is co	nsider	ed frau	id and	may be	e grounds for	legal action	•	
Processing and a service	ed by: (Signatur	The second second	Date	119/24	Time [ 0 : 1 6	Received by: (Signature)	Pes Date	19.	)4	Time	15				sampl	ed or re	ceived		reservation mu in ice at an avg			
Relinquish	ed by (Signatur	e) ingale	Date &	19-24	Time 1940	Received by: (Signature)	Date		.24	Time	40					eivec		ce:	Lab Us	e Only		
	ned by: (Signatur		Dat	.20.24	1000	Received by: (Signature)	Date			Time					T1	_,,,_,		A	T2		<u>T3</u>	
Relinquish	ned by: (Signatur	e)	Dat		Time	Received by: (Signature)	Date			Time					AVC	Ten	np °C	L	1			
	salure called c	olid Se - Shu	dge A - Ani	ueous, O - Oth	er	1	Cor	tain	er Typ	6: B -	glass.	n-r	olv/r	lasti	C ag	- aml	ner gl	ass. \	- VOA			

Chain of Custody





Printed: 8/20/2024 10:10:28AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	08/20/24			Work Order ID:	E408171
Phone:	(575) 988-0055	Date Logged In:	08/20/24			Logged In By:	Keyliegh Hall
Email:		Due Date:	08/26/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Ourier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	carrier. <u>c</u>	<u> </u>		
	all samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic	•				Comment	s/Resolution
	<u>Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. <u>1</u>	<u> </u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	1	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field La	· · · · · · · · · · · · · · · · · · ·	iers conecteur	165				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	No				
	Date/Time Collected?		Yes				
C	Collectors name?		Yes				
Sample 1	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	v?	No				
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· N/A		
		so who.	- 11.2	Subcontract Lab	), 14/11		
Client II	<u>nstruction</u>						

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E408176

Job Number: 23003-0002

Received: 8/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/27/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/27/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E408176

Date Received: 8/21/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/21/2024 5:00:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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Laboratory Administrator Office: 505-632-1881

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mgonzales@envirotech-inc.com

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#### **Sample Summary**

Γ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	D 4 - J
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/27/24 07:57

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01D-0'	E408176-01A Soil	08/19/24	08/21/24	Glass Jar, 2 oz.
SS03J-0'	E408176-02A Soil	08/19/24	08/21/24	Glass Jar, 2 oz.
SS05N-0'	E408176-03A Soil	08/19/24	08/21/24	Glass Jar, 2 oz.



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 7:57:08AM

#### SS01D-0' E408176-01

		E400170-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· · · · · · · · · · · · · · · · · · ·	resure			•	7 11141 7 1 2 4 4	11000
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: CG		Batch: 2434044
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
o-Xylene	ND	0.0250	1	08/21/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID		88.0 %	70-130	08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: CG		Batch: 2434044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2434048
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane		92.6 %	50-200	08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2434045
Chloride	ND	200	10	08/21/24	08/21/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 7:57:08AM

#### SS03J-0'

		E408176-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2434044
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
p-Xylene	ND	0.0250	1	08/21/24	08/21/24	
o,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2434044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2434048
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane		92.8 %	50-200	08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2434045
Chloride	421	200	10	08/21/24	08/21/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 7:57:08AM

### SS05N-0'

		E408176-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: CG		Batch: 2434044
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
o-Xylene	ND	0.0250	1	08/21/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID		88.1 %	70-130	08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2434044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2434048
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane		97.8 %	50-200	08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2434045
Chloride	ND	200	10	08/21/24	08/21/24	



## **QC Summary Data**

		QC S.		ir y Dati					
San Mateo Black River Water Manage 3122 National Parks Hwy. Carlsbad NM, 88220	ment Co.	Project Name: Project Number: Project Manager:	23	lack River SW 3003-0002 shley Giovens					<b>Reported:</b> 8/27/2024 7:57:08AM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434044-BLK1)							Prepared: 0	8/21/24 A	analyzed: 08/21/24
Benzene	ND	0.0250					*		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10	0.0230	8.00		88.7	70-130			
LCS (2434044-BS1)							Prepared: 0	8/21/24 A	analyzed: 08/21/24
Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
o-Xylene	4.48	0.0250	5.00		89.5	70-130			
p,m-Xylene	9.15	0.0500	10.0		91.5	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			
Matrix Spike (2434044-MS1)				Source:	E408176-	02	Prepared: 0	8/21/24 A	analyzed: 08/21/24
Benzene	4.71	0.0250	5.00	ND	94.3	54-133			
Ethylbenzene	4.56	0.0250	5.00	ND	91.1	61-133			
Toluene	4.65	0.0250	5.00	ND	92.9	61-130			
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131			
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			
Matrix Spike Dup (2434044-MSD1)				Source:	E408176-	02	Prepared: 0	8/21/24 A	analyzed: 08/21/24
Benzene	4.95	0.0250	5.00	ND	99.0	54-133	4.92	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	4.83	20	
Toluene	4.88	0.0250	5.00	ND	97.6	61-130	4.92	20	
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	4.57	20	
•			10.0	ND	97.2	63-131	4.81	20	
p,m-Xylene	9.72	0.0500	10.0	ND	91.4	05-151	1.01		
p,m-Xylene Total Xylenes	9.72 14.5	0.0500 0.0250	15.0	ND	96.5	63-131	4.73	20	



Gasoline Range Organics (C6-C10)

#### **QC Summary Data**

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo8/27/20247:57:08AM

	Non	Analyst: CG							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434044-BLK1)							Prepared: 0	8/21/24 Analy	yzed: 08/21/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			
LCS (2434044-BS2)							Prepared: 0	8/21/24 Analy	yzed: 08/21/24
Gasoline Range Organics (C6-C10)	40.1	20.0	50.0		80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			
Matrix Spike (2434044-MS2)				Source:	E408176-	02	Prepared: 0	8/21/24 Analy	yzed: 08/21/24

Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			
Matrix Spike Dup (2434044-MSD2)				Source:	E408176-	02	Prepared: 08	8/21/24 Analyzed:	08/21/24
Gasoline Range Organics (C6-C10)	38.8	20.0	50.0	ND	77.6	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.6	70-130			

50.0

ND

70-130

20.0

### **QC Summary Data**

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo8/27/20247:57:08AM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			8/2	7/2024 7:57:08AN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434048-BLK1)							Prepared: 0	8/21/24 Anal	yzed: 08/22/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			
LCS (2434048-BS1)							Prepared: 0	8/21/24 Anal	yzed: 08/22/24
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
Matrix Spike (2434048-MS1)				Source:	E408175-	21	Prepared: 0	8/21/24 Anal	yzed: 08/22/24
Diesel Range Organics (C10-C28)	1070	25.0	250	799	109	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			
Matrix Spike Dup (2434048-MSD1)				Source:	E408175-	21	Prepared: 0	8/21/24 Anal	yzed: 08/22/24
Diesel Range Organics (C10-C28)	1020	25.0	250	799	86.6	38-132	5.47	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Chloride

M5

#### **QC Summary Data**

San Mateo Black River Water Manage	Project Name:	Project Name: Black						Reported:	
3122 National Parks Hwy.	Project Number:	23	003-0002						
Carlsbad NM, 88220		Project Manager	: As	shley Gioveng	go				8/27/2024 7:57:08AM
		Anions	by EPA 3	00.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434045-BLK1)							Prepared: 0	8/21/24 A	nalyzed: 08/21/24
Chloride	ND	20.0							
LCS (2434045-BS1)							Prepared: 0	8/21/24 A	nalyzed: 08/21/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434045-MS1)				Source:	E408176-	01	Prepared: 0	8/21/24 A	nalyzed: 08/21/24
Chloride	384	200	250	ND	154	80-120			M5
Matrix Spike Dup (2434045-MSD1)				Source:	E408176-0	01	Prepared: 0	8/21/24 A	nalyzed: 08/21/24

250

200

ND

161

80-120

#### QC Summary Report Comment:

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



#### **Definitions and Notes**

ſ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/27/24 07:57

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The

accociated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Page 1	of <u>L</u> Rec
TX	Received by OCD: 12/4/2024 12:00:24 AN
n RCRA	OCD: 12
or N	2/4/2024
	12:00:2
	4 4 1

	Clie	nt Inform	nation		Invoice Information	n	1/2			Lab	Use	Only				TAT			State	2
Client: 50	a Mater By	suk River	Water Man	igument Commany	Company: Ensolum LLC		L	ab W	VO#		Jo	b Nur	nber		1D	2D 3	D Std	d NM CO UT TX		
Project:	Black R	iver 6	W/0 1		Address: 3122 National Parks	Hwv	F	F 4	081	70	2				X	X				
	Manager: As			_	City, State, Zip: Carlsbad NM,		_					30.	-	,00			1/	1/		
	3122 Natio				Phone: 575-988-0055	00220		Г	-		Δ	nalvsi	sano	Met	hod			FPA	Progra	m
							_	-	-		1	laiys	nalysis and Method				SDWA	CWA	RCRA	
	e, Zip: Carls		88220		Email: agiovengo@ensolum	.com	_										11	SUVA	CVVA	NCNA
	575-988-005				Miscellaneous:													C	Lv	and N
Email: a	giovengo@e	nsolum.c	om					17	015	8015								Compliance	9 Y	or N
								-0	98 80	34 80	17	0.0	Σ	×	tals		100	PWSID#		
				Sample Infor	mation				ORO E	RO	y 80	de 30	Z	- 500	3 Me					
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field	Lab Numb	o oer	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			ŀ	Remarks	
11:18	8/19/24	501	1	5501	D-0'		1						X							
13:27	8/19/24	Soil	1	5503	D-0' 5-0'		2						X							
	8/19/24		1	5505	N-0		3						X							
								7												
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										-			1	-						
								-			+	+	-							
						11.	0													
					.com, agiovengo@ensolum.com															
I, (field sam Sampled by	pler), attest to th	e validity and	authenticity of Bow	this sample. I am aw	are that tampering with or intentionally misls $5$	abeling the sa	mple loca	ation, o	date or	time o	of colle	tion is c	onside	red fra	ud and	may be g	rounds fo	r legal action.		
Relinguish	ed by: (Signatu	re)	Date	0/24 Time	Received by: (Signature)	Date S	20-2	4	Time	15			samp	led or n	eceived			nust be received o		
Relinquish	ed by: (Signatu	re)/	Date	7-24 Time	Received by: (Signature)		-20			-	36			enuent o		ico	Lab U	se Only		
	led by: (Signatu		Date Q -	20-17 Time 2	Received by: (Signature)	Date		1	Time	91			T1	eive	d on i	ice:			г3	
Relinquish	ed by: (Signatu	ire)	Date	Time	Received by: (Signature)	Date	•	,	Time				Δ	G Ter	np °C	- ,,				
Cample MA-	trix: S - Soil, Sd - S	olid Sa Sh	dae A . Aques	is O - Other		Con	tainer	Type	: g - p	lass.	o - no	v/plas	tic. as	- am	ber ø	ass, v -	VOA			
					other arrangements are made. Hazard														ata af ala	Acres 1

Printed: 8/21/2024 9:27:47AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

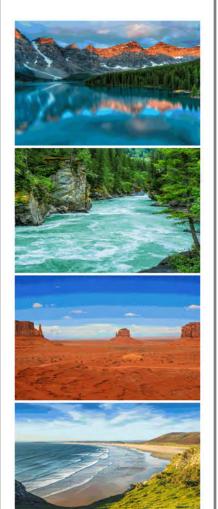
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	08/21/24 05	:00		Work Order ID:	E408176
Phone:	(575) 988-0055	Date Logged In:	08/20/24 16	:03		Logged In By:	Raina Schwanz
Email:		Due Date:	08/27/24 17	:00 (4 day TAT)			
	Custody (COC)						
	ne sample ID match the COC?	tab the COC	Yes				
	ne number of samples per sampling site location man amples dropped off by client or carrier?	ten the COC	Yes				
	e COC complete, i.e., signatures, dates/times, request	stad analysas?	Yes Yes	Carrier: <u>C</u>	Courier		
	Il samples received within holding time?	sied analyses:	Yes				
J. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		103	_		<u>Comment</u>	s/Resolution
	Curn Around Time (TAT)  a COC indicate standard TAT, or Expedited TAT?		Yes		Visible wh	ite out on CC	OC by client.
Sample (	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C	Container	_					
14. Are a	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal	<del></del> -						
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes				
	pate/Time Collected?		Yes	L			
C	ollectors name?		No				
_	<u>Preservation</u>						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and in	f so who?	NA S	Subcontract Lab	: NA		
Client II	<u>istruction</u>						

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E408187

Job Number: 23003-0002

Received: 8/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/28/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/28/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E408187

Date Received: 8/22/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2024 5:30:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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whinchman@envirotech-inc.com

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### Sample Summary

Γ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Donoutoda
ı	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/24 15:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 0'	E408187-01A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH02 - 2'	E408187-02A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH03 - 0'	E408187-03A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH03 - 2'	E408187-04A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH03 - 3'	E408187-05A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 0'	E408187-06A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 2'	E408187-07A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 4'	E408187-08A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 6'	E408187-09A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 8'	E408187-10A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 10'	E408187-11A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 12'	E408187-12A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 14'	E408187-13A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 16'	E408187-14A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 18'	E408187-15A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH05 - 0'	E408187-16A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH05 - 1'	E408187-17A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH06 - 0'	E408187-18A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH06 - 1'	E408187-19A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH07 - 0'	E408187-20A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH07 - 2'	E408187-21A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH07 - 4'	E408187-22A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH02 - 0' E408187-01

		E400107-01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
					•	111111) 200	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/22/24	08/26/24	
Surrogate: n-Nonane		83.2 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2434068
Chloride	18400	1000	5	50	08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH02 - 2' E408187-02

		2.00107 02				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Maryte	Result	Limit	Dilutio	n repared	Miaryzed	110103
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	nalyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane		86.0 %	50-200	08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: WF		Batch: 2434068
Chloride	6700	400	20	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH03 - 0' E408187-03

		2100107 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: DL		Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/22/24	08/26/24	
Surrogate: n-Nonane		92.2 %	50-200	·	08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2434068
Chloride	2090	200	1	10	08/22/24	08/22/24	_

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH03 - 2' E408187-04

Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Analyte	Kesun	Limit	Dilui	tion	Trepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: DI	_		Batch: 2434061
Benzene	ND	0.0250	1		08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1		08/22/24	08/23/24	
Toluene	ND	0.0250	1		08/22/24	08/23/24	
o-Xylene	ND	0.0250	1		08/22/24	08/23/24	
o,m-Xylene	ND	0.0500	1		08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1		08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: DI	L		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: N	V		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1		08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/22/24	08/26/24	
Surrogate: n-Nonane	·	99.9 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: W	F		Batch: 2434068
Chloride	85.6	20.0	1		08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH03 - 3' E408187-05

		2100107 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: DL		Batch: 2434061
Renzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	:	1	08/22/24	08/26/24	
Surrogate: n-Nonane		87.4 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: WF		Batch: 2434068
Chloride	151	20.0		1	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 0' E408187-06

		E400107-00					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: D	L		Batch: 2434061
Benzene	ND	0.0250	1		08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1		08/22/24	08/23/24	
Toluene	ND	0.0250	1		08/22/24	08/23/24	
o-Xylene	ND	0.0250	1		08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1		08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1		08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: D	L		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: N	V		Batch: 2434056
Diesel Range Organics (C10-C28)	51.5	25.0	1		08/22/24	08/26/24	
Oil Range Organics (C28-C36)	58.9	50.0	1		08/22/24	08/26/24	
Surrogate: n-Nonane		93.6 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: W	/F		Batch: 2434068
Chloride	5380	200	10	0	08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 2' E408187-07

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Amary				1	Anaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		99.3 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		99.3 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane		96.5 %	50-200	08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: WF		Batch: 2434068
Chloride	1200	20.0	1	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 4' E408187-08

		L400107-00				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		105 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		105 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		101 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: WF		Batch: 2434068
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San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 6' E408187-09

		E400107-03					
		Reporting					
Analyte	Result	Limit	Dilut	tion Prep	ared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: DL			Batch: 2434061
Benzene	ND	0.0250	1	08/2	2/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/2	2/24	08/23/24	
Toluene	ND	0.0250	1	08/2	2/24	08/23/24	
o-Xylene	ND	0.0250	1	08/2	2/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/2	2/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/2	2/24	08/23/24	
Surrogate: Bromofluorobenzene		98.5 %	70-130	08/2	2/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	08/2	2/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/2	2/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: DL			Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/2	2/24	08/23/24	
Surrogate: Bromofluorobenzene		98.5 %	70-130	08/2	2/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	08/2	2/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/2	2/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV			Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/2	2/24	08/27/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	08/2	2/24	08/27/24	
Surrogate: n-Nonane		98.8 %	50-200	08/2	2/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: WF			Batch: 2434068
Chloride	1810	20.0	1	08/2	2/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 8' E408187-10

		E400107-10					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	DL		Batch: 2434061
Benzene	ND	0.0250	1	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/22/24	08/27/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/22/24	08/27/24	
Surrogate: n-Nonane		102 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2434068
Chloride	717	20.0	1	1	08/22/24	08/22/24	
	717	20.0	1	I	08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 10' E408187-11

		E400107-11					
Anglista	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dill	uuon	Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	DL		Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	İ	1	08/22/24	08/27/24	
Surrogate: n-Nonane		101 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2434068
Chloride	900	20.0		1	08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 12' E408187-12

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San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 14' E408187-13

		2.00107.10				
Analyte	Result	Reporting Limit	Dilu	tion Prepared	Analyzed	Notes
Marye	Result	Limit	Dilu	iion Trepared	Maryzed	rvotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: DL	Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		103 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2434068
Chloride	1090	20.0	1	08/22/24	08/22/24	
Chloride	1090	20.0	1	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 16' E408187-14

		E400107-14				
Analyte	Result	Reporting Limit	Dilut	tion Prepa	red Analyzed	Notes
Analyte	Kesuit	Limit	Dilui	поп тера	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22	/24 08/23/24	
Ethylbenzene	ND	0.0250	1	08/22	/24 08/23/24	
Toluene	ND	0.0250	1	08/22	/24 08/23/24	
-Xylene	ND	0.0250	1	08/22	/24 08/23/24	
o,m-Xylene	ND	0.0500	1	08/22	/24 08/23/24	
Total Xylenes	ND	0.0250	1	08/22	/24 08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/	/24 08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/22	/24 08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22	/24 08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: DL	Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22	/24 08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22	/24 08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/22	/24 08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22	/24 08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22	/24 08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22	/24 08/27/24	
Surrogate: n-Nonane		96.6 %	50-200	08/22	/24 08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2434068
Chloride	744	20.0	1	08/22	/24 08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH04 - 18' E408187-15

		E408187-15					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	:: DL		Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
p-Xylene	ND	0.0250		1	08/22/24	08/23/24	
o,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: DL			Batch: 2434061		
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	:: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/22/24	08/27/24	
Surrogate: n-Nonane		96.7 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	:: WF		Batch: 2434068
Chloride	501	200	1	0	08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH05 - 0' E408187-16

	E-100107-10				
Dagult			on Dronous 1	A malviga J	Notes
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	A	nalyst: DL		Batch: 2434061
ND	0.0250	1	08/22/24	08/23/24	
ND	0.0250	1	08/22/24	08/23/24	
ND	0.0250	1	08/22/24	08/23/24	
ND	0.0250	1	08/22/24	08/23/24	
ND	0.0500	1	08/22/24	08/23/24	
ND	0.0250	1	08/22/24	08/23/24	
	101 %	70-130	08/22/24	08/23/24	
	99.2 %	70-130	08/22/24	08/23/24	
	105 %	70-130	08/22/24	08/23/24	
mg/kg	mg/kg	A	nalyst: DL		Batch: 2434061
ND	20.0	1	08/22/24	08/23/24	
	101 %	70-130	08/22/24	08/23/24	
	99.2 %	70-130	08/22/24	08/23/24	
	105 %	70-130	08/22/24	08/23/24	
mg/kg	mg/kg	A	nalyst: NV		Batch: 2434056
ND	25.0	1	08/22/24	08/27/24	
ND	50.0	1	08/22/24	08/27/24	
	98.3 %	50-200	08/22/24	08/27/24	
mg/kg	mg/kg	A	nalyst: WF		Batch: 2434068
	ND	mg/kg mg/kg  ND 0.0250  ND 0.0250  ND 0.0250  ND 0.0250  ND 0.0500  ND 0.0250  ND 0.0250  ND 0.0250  I01 %  99.2 %  105 %  mg/kg mg/kg  ND 20.0  101 %  99.2 %  105 %  mg/kg mg/kg  ND 25.0  ND 25.0  ND 50.0	Reporting           Limit         Dilution           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           101 %         70-130         70-130           99.2 %         70-130         70-130           mg/kg         mg/kg         A           ND         20.0         1           105 %         70-130         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1           98.3 %         50-200	Reporting           Result         Limit         Dilution         Prepared           mg/kg         Analyst: DL           ND         0.0250         1         08/22/24           ND         0.0250         1         08/22/24           ND         0.0250         1         08/22/24           ND         0.0250         1         08/22/24           ND         0.0500         1         08/22/24           ND         0.0250         1         08/22/24           99.2 %         70-130         08/22/24           99.2 %         70-130         08/22/24           105 %         70-130         08/22/24           ND         20.0         1         08/22/24           99.2 %         70-130         08/22/24           105 %         70-130         08/22/24           105 %         70-130         08/22/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         08/22/24           ND         50.0         1         08/22/24           ND         50.0         1         08/22/24           ND         50.0         1	Reporting           Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: DL           ND         0.0250         1         08/22/24         08/23/24           ND         0.0500         1         08/22/24         08/23/24           ND         0.0250         1         08/22/24         08/23/24           ND         0.0250         1         08/22/24         08/23/24           99.2 %         70-130         08/22/24         08/23/24           99.2 %         70-130         08/22/24         08/23/24           mg/kg         mg/kg         Analyst: DL           ND         20.0         1         08/22/24         08/23/24           99.2 %         70-130         08/22/24         08/23/24           99.2 %         70-130         08/22/24         08/23/24           mg/kg         mg/kg         Analyst: NV           ND         <

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH05 - 1' E408187-17

		2100107 17					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: DL		Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: DL			Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/22/24	08/27/24	
Surrogate: n-Nonane		96.7 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2434068
Chloride	402	20.0		1	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH06 - 0' E408187-18

		2.00107 10					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: DL		Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: DL			Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/22/24	08/27/24	
Surrogate: n-Nonane		102 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2434068
Chloride	1320	200	1	10	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH06 - 1' E408187-19

		2.0010. 15					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: DL		Batch: 2434061
Benzene	ND	0.0250		1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250		1	08/22/24	08/23/24	
Toluene	ND	0.0250		1	08/22/24	08/23/24	
o-Xylene	ND	0.0250		1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500		1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0		1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/22/24	08/27/24	
Surrogate: n-Nonane		98.0 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2434068
Chloride	348	200	1	10	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH07 - 0' E408187-20

		E40010/-20					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: 1	DL		Batch: 2434061
Benzene	ND	0.0250	1		08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1		08/22/24	08/23/24	
Toluene	ND	0.0250	1		08/22/24	08/23/24	
o-Xylene	ND	0.0250	1		08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1		08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1		08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: DL			Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: 1	NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1		08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/22/24	08/27/24	
Surrogate: n-Nonane		94.2 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: \	WF		Batch: 2434068
Chloride	12700	400	20	0	08/22/24	08/22/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH07 - 2' E408187-21

		E400107-21					
Analyte	Result	Reporting Limit	Dilu	ition	Prepared	Analyzed	Notes
·					•		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: E			Batch: 2434062
Benzene	ND	0.0250	1	l	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	l	08/22/24	08/22/24	
Toluene	ND	0.0250	1	l	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	!	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	l	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	l	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/22/24	08/22/24	
Surrogate: Toluene-d8		99.6 %	70-130		08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/22/24	08/22/24	
Surrogate: Toluene-d8		99.6 %	70-130		08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	IV		Batch: 2434055
Diesel Range Organics (C10-C28)	ND	25.0	1		08/22/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	08/22/24	08/22/24	
Surrogate: n-Nonane		59.7 %	50-200	·	08/22/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: J	M		Batch: 2434063
Chloride	1020	20.0	1	[	08/22/24	08/22/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

#### BH07 - 4' E408187-22

		E400107-22				
Anglista	Result	Reporting Limit	Dilut	tion Prepa	Analy1	Notes
Analyte	Result	Limit	Dilui	tion Prepa	ared Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: BA		Batch: 2434062
Benzene	ND	0.0250	1	08/22	2/24 08/22/24	
Ethylbenzene	ND	0.0250	1	08/22	2/24 08/22/24	
Toluene	ND	0.0250	1	08/22	2/24 08/22/24	
o-Xylene	ND	0.0250	1	08/22	2/24 08/22/24	
p,m-Xylene	ND	0.0500	1	08/22	2/24 08/22/24	
Total Xylenes	ND	0.0250	1	08/22	2/24 08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22	2/24 08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/22	2/24 08/22/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/22	2/24 08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA	Batch: 2434062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22	2/24 08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22	2/24 08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/22	2/24 08/22/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/22	2/24 08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2434055
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22	2/24 08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22	2/24 08/22/24	
Surrogate: n-Nonane		64.3 %	50-200	08/22	2/24 08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2434063
Chloride	124	20.0	1	08/22	2/24 08/22/24	



#### **QC Summary Data**

Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported: 3122 National Parks Hwy. Project Number: 23003-0002 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/28/2024 3:24:42PM **Volatile Organic Compounds by EPA 8260B** Analyst: DL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2434061-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.498 0.500 99.6 70-130 Surrogate: 1,2-Dichloroethane-d4 0.491 0.500 98.1 70-130 0.500 107 70-130 Surrogate: Toluene-d8 0.537 LCS (2434061-BS1) Prepared: 08/22/24 Analyzed: 08/28/24 2.40 0.0250 2.50 96.0 70-130 Benzene 2.42 2.50 70-130 96.8 Ethylbenzene 0.0250 2.42 0.0250 2.50 96.7 70-130 70-130 2.32 0.0250 2.50 92.8 o-Xylene 4.68 93.5 p,m-Xylene 0.0500 5.00 70 - 1307.00 0.0250 7.50 93.3 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.506 0.500 101 70-130 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.504 70-130 0.529 0.500 Surrogate: Toluene-d8 Matrix Spike (2434061-MS1) Source: E408187-04 Prepared: 08/22/24 Analyzed: 08/23/24 2.17 0.0250 2.50 ND 86.7 48-131 45-135 2.11 0.0250 2.50 ND 84.4 Ethylbenzene 48-130 Toluene 2.14 0.0250 2.50 ND 85.8 2.02 0.0250 2.50 ND 80.8 43-135 o-Xylene 4.02 ND 80.5 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 6.04 0.0250 7.50 ND 80.6 43-135 99.5 0.498 0.500 70-130 Surrogate: Bromofluorobenzene 0.500 98.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.495 70-130 0.520 0.500 Surrogate: Toluene-d8 Matrix Spike Dup (2434061-MSD1) Source: E408187-04 Prepared: 08/22/24 Analyzed: 08/23/24 2.29 0.0250 2.50 ND 91.6 48-131 5.50 23 2.24 0.0250 2.50 ND 89.7 45-135 6.16 27 Ethylbenzene ND 90.7 48-130 24 2.27 2.50 5.60 Toluene 0.0250 o-Xylene 2.19 0.0250 2.50 ND 87.5 43-135 7.99 27

5.00

7.50

0.500

0.500

0.500

0.0500

0.0250

4.38

6.57

0.510

0.498

0.528

ND

ND

87.6

87.6

102

99.5

106

43-135

43-135

70-130

70-130

70-130

8.53

8.35

27

27



p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

#### **QC Summary Data**

Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported: Project Number: 3122 National Parks Hwy. 23003-0002 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/28/2024 3:24:42PM **Volatile Organic Compounds by EPA 8260B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2434062-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.517 0.500 103 70-130 Surrogate: 1,2-Dichloroethane-d4 0.492 0.500 98.3 70-130 0.500 100 70-130 Surrogate: Toluene-d8 0.501 LCS (2434062-BS1) Prepared: 08/22/24 Analyzed: 08/22/24 2.11 0.0250 2.50 84.3 70-130 Benzene 2.50 70-130 2.32 92.7 Ethylbenzene 0.0250 2.12 0.0250 2.50 84.8 70-130 93.3 70-130 2.33 0.0250 2.50 o-Xylene 4.68 5.00 93.5 70-130 p,m-Xylene 0.0500 7.01 0.0250 7.50 93.5 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.519 0.500 104 70-130 0.500 94.2 70-130 Surrogate: 1,2-Dichloroethane-d4 0.471 70-130 Surrogate: Toluene-d8 0.495 0.500 Matrix Spike (2434062-MS1) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24 2.51 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.50 0.0250 2.50 ND 100 94.7 48-130 Toluene 2.37 0.0250 2.50 ND 2.47 0.0250 2.50 ND 98.7 43-135 o-Xylene 4.94 5.00 ND 98.9 43-135 p,m-Xylene 0.0500

7.41

0.515

0.474

0.495

2.52

2.51

2.37

2.52

5.02

7.54

0.515

0.483

0.496

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

7.50

0.500

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

ND

ND

98.8

103

94.7

101

101

94.8

101

100

100

103

96.5

99.2

Source: E408189-01

43-135

70-130

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

0.199

0.558

0.106

1.97

1.52

1.67

Prepared: 08/22/24 Analyzed: 08/22/24

23

27

24

27

27

27

Total Xylenes

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2434062-MSD1)

Matrix Spike Dup (2434061-MSD2)

Gasoline Range Organics (C6-C10)

 ${\it Surrogate: Bromofluor obenzene}$ 

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

#### **QC Summary Data**

Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported: Project Number: 23003-0002 3122 National Parks Hwy. Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/28/2024 3:24:42PM

Source: E408187-04

92.2

101

98.6

108

ND

70-130

70-130

70-130

70-130

3.32

Nonhalogenated	Organics	bv EPA	8015D -	- GRO

46.1

0.505

0.493

0.538

Prepared: 08/22/24 Analyzed: 08/23/24

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434061-BLK1)							Prepared: 0	8/22/24 Analy	zed: 08/22/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			
LCS (2434061-BS2)							Prepared: 0	8/22/24 Analy	zed: 08/22/24
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			
Matrix Spike (2434061-MS2)				Source:	Source: E408187-04		Prepared: 0	8/22/24 Analy	zed: 08/23/24
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

50.0

0.500

0.500

0.500

20.0



Surrogate: Toluene-d8

## **QC Summary Data**

San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Reported:

3122 National Parks Hwy.

Project Number: 23003-0002

Carlsbad NM, 88220

Project Manager: Ashley Giovengo

Analyst: BA
-------------

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2434062-BLK1)						I	Prepared: 0	8/22/24 Analy	yzed: 08/22/24	

Blank (2434062-BLK1)							Prepared: 0	8/22/24	Analyzed: 08/22/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
LCS (2434062-BS2)							Prepared: 0	8/22/24	Analyzed: 08/22/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
Matrix Spike (2434062-MS2)				Source:	Source: E408189-01		Prepared: 0	8/22/24	Analyzed: 08/22/24
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike Dup (2434062-MSD2)				Source: 1	E408189-0	01	Prepared: 0	8/22/24	Analyzed: 08/22/24
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	0.233	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			

0.500

0.504

101

70-130



## **QC Summary Data**

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo8/28/20243:24:42PM

Carisbad IVIVI, 66220		1 Toject Ivianage	7.5	micy Gloveng	50			0.	20/2021 3.21.1211
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434055-BLK1)							Prepared: 0	8/22/24 Ana	alyzed: 08/22/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.2		50.0		86.5	50-200			
LCS (2434055-BS1)							Prepared: 0	8/22/24 Ana	alyzed: 08/22/24
Diesel Range Organics (C10-C28)	199	25.0	250		79.7	38-132			
Surrogate: n-Nonane	41.4		50.0		82.7	50-200			
Matrix Spike (2434055-MS1)				Source:	E408183-	01	Prepared: 0	8/22/24 Ana	alyzed: 08/22/24
Diesel Range Organics (C10-C28)	200	25.0	250	ND	80.0	38-132			
Surrogate: n-Nonane	42.2		50.0		84.3	50-200			
Matrix Spike Dup (2434055-MSD1)				Source:	E408183-	01	Prepared: 0	8/22/24 Ana	alyzed: 08/22/24
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.6	38-132	0.829	20	
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			

## **QC Summary Data**

Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported: 23003-0002 3122 National Parks Hwy. Project Number: 8/28/2024 3:24:42PM Carlsbad NM, 88220 Project Manager: Ashley Giovengo

Carisbad NM, 88220		Project Manage	r: As	sniey Gioveng	go				8/28/2024 3:24:42PF
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434056-BLK1)							Prepared: 0	8/22/24 A	nalyzed: 08/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
LCS (2434056-BS1)							Prepared: 0	8/22/24 A	nalyzed: 08/26/24
Diesel Range Organics (C10-C28)	218	25.0	250		87.1	38-132			
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			
Matrix Spike (2434056-MS1)				Source:	E408187-	08	Prepared: 0	8/22/24 A	nalyzed: 08/26/24
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	38-132			
Surrogate: n-Nonane	50.1		50.0		100	50-200			
Matrix Spike Dup (2434056-MSD1)				Source:	E408187-	08	Prepared: 0	8/22/24 A	nalyzed: 08/26/24
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.7	38-132	1.42	20	
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			

## **QC Summary Data**

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	<b>Reported:</b> 8/28/2024 3:24:42PM			
3122 National Parks Hwy.	Project Number:	23003-0002				
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo				
Anions by EPA 300.0/9056A  Analyst: Ji						

Anions	by	EPA	300.0	/9056A	

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434063-BLK1)							Prepared: 0	8/22/24	Analyzed: 08/22/24
Chloride	ND	20.0							
LCS (2434063-BS1)							Prepared: 0	8/22/24	Analyzed: 08/22/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2434063-MS1)				Source:	E408184-	04	Prepared: 0	8/22/24	Analyzed: 08/22/24
Chloride	341	20.0	250	79.8	105	80-120			
Matrix Spike Dup (2434063-MSD1)				Source:	E408184-	04	Prepared: 0	8/22/24	Analyzed: 08/22/24
Chloride	339	20.0	250	79.8	104	80-120	0.678	20	

## **QC Summary Data**

San Mateo Black River Water Manage 3122 National Parks Hwy.	ement Co.	Project Name: Project Number:	23	lack River SW 8003-0002					<b>Reported:</b> 8/28/2024 3:24:42PM
Carlsbad NM, 88220		Project Manager:	A	shley Gioveng	go				8/28/2024 3:24:42PM
		Anions l	by EPA 3	300.0/9056 <i>A</i>	<b>\</b>				Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434068-BLK1)							Prepared:	08/22/24	Analyzed: 08/22/24
Chloride	ND	20.0							
LCS (2434068-BS1)							Prepared:	08/22/24	Analyzed: 08/22/24
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2434068-MS1)				Source:	E408187-0	)3	Prepared:	08/22/24	Analyzed: 08/22/24
Chloride	2290	200	250	2090	80.1	80-120			
Matrix Spike Dup (2434068-MSD1)				Source:	E408187-0	)3	Prepared:	08/22/24	Analyzed: 08/22/24
Chloride	2320	200	250	2090	91.9	80-120	1.29	20	

#### QC Summary Report Comment:

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



#### **Definitions and Notes**

Γ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/24 15:24

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



	Clie	nt Inform	nation			Invoice Information					La	b Us	e On	ly				TA	T		State	
Client: <	ran Mat	PO Bio	ackRive	r Wester M	canadement Co	ompany: Ensolum LLC		1	Lab	WO#			Job	Num	ber		1D	2D	3D !	Std	NM CO UT	TX
Project:	Black 1	Liver	SWD 1	0		ddress: 3122 National Parks Hy	vy		E4	08	187		230	203	-00	02				X	X	
	lanager: As				Ci	ty, State, Zip: Carlsbad NM, 88	220		9													
Address:	3122 Nation	nal Parks	Hwy		Ph	none: 575-988-0055							Ana	lysis	and	Met	hod				EPA Progra	m
City, Stat	e, Zip: Carls	bad NM,	88220		E	mail: agiovengo@ensolum.co	m														SDWA CWA	RCRA
Phone: 5	75-988-005	5			Mi	scellaneous:														1		
Email: ag	giovengo@e	nsolum.c	om							15	15										Compliance Y	or N
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				Samp	ole Informat	ion	400			30 b	30 b	802	826	e 300	N.	05 - 1	Met					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lal Num	b ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
8:27	8/20/14	Soil	1	6	3HO2-	-0'		1							X							
9:30		1			3HOZ-			2							X							
8:27					SH03-		Ž.	3	,						χ							
9:17					H03-			4							X							
10:27				B	H03-	31		5							X							
10.13				B	Hou-	-01		(0							X							
10 23				B	1404-	-2`		7							X							
1021				B	HOY	- q'		8							X							
11 18					1404			9							X							
1135				B	HOY	-8'		U	0						X							
Addition	al Instructio	ns: Ple	ase CC: cb	urton@e	nsolum.com	n, agiovengo@ensolum.com, ie	strella	@ensc	olum	ı.cor	n, bd	eal@	ens	olum	.con	n, cha	amilt	on@	enso	lum	.com,	
bsimmor	ns@ensolum	.com																				
I, (field samp	oler), attest to the	e validity and	d authenticity	of this sampl	le. I am aware th	nat tampering with or intentionally mislabe	ling the sa	ample loc	cation	, date	or time	e of co	llectio	n is co	nsidere	ed frau	d and	may be	e groun	ds for	legal action.	
	Cole Burton a						To another the second										2000.24					Charle Mile.
Relinquishe	ed by: (Signatur	re)	Date S/	21/24	10:15	Received by: (Signature)	8	21.2	4	Time (	215	5			sample		ceived		in ice at	an avg	st be received on ice the day temp above 0 but less than	
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	rix: <b>S</b> - Soil, <b>Sd</b> - So							ntainer			_											
The second second		Charles Carl				er arrangements are made. Hazardous h this COC. The liability of the laborat	1 10000 1000									e clien	nt exp	ense.	The re	port	for the analysis of the	above

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envirotech

**Invoice Information** 

Lab Use Only

TAT

1D 2D 3D Std

Released to Imaging: 1/3/2025 11:07:54 AM

**Client Information** 

npliance Y or N			State	2	
OWA CWA RCRA  Impliance Y or N  ISID#	NM	CO	UT	TX	
OWA CWA RCRA  Impliance Y or N  ISID#	X.				-
OWA CWA RCRA  Inpliance Y or N  ISID#	EF	A Pr	rogra	ım	-
SID#	WA				RA
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Client: S	un Mateo Bl	ack Rive	(Worter)	hanagemen	Ut CENTERNY C	ompany: Ensolum LLC			Lab V				Job I			-1	1D	2D	3D			CO UT	TX
	Black Riv				_	ddress: 3122 National F			E40	00	187		251	203	-ce	يكر				Х			
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	te, Zip: Carls		88220	_		mail: agiovengo@ens	olum.com									(					SDWA	CVVA	KCKA
	575-988-005		3000		M	iscellaneous:															Camadian	e Y	or N
Email: a	giovengo@e	ensolum.c	om				-	-		3015	3015									1	Compliand PWSID #	e i i	TOL IN
_				Sam	ple Informa	tion				to by 8	to by 8	8021	8260	300.0	-NM	XT - 20	Metals				F VVSID #		
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1157	8/20/24	Soil	1	B	HO4-	-10		1	1						X								
1337	1			B	H04-	-12		12	2						χ								
1400					HOU-			1	3						χ								
1422					H04		1/4	10	+						X								
1450					HOU			La	5						X								
1122				B	HOS.	-01		10	P				5		χ								
1134				B	H05-	-1,		1	7						X								
1343				B	H06-	-0'		1	8						χ								
1350				B	sH06-	11		10	9						χ								
1418				B	31+07-	0		2	0						X								
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	te, Zip: Carls		88220			Email: agiovengo@ensolum.co	m	-													SDWA	CWA	RCRA
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Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lat Numl	b ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
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	ns@ensolun pler), attest to th		authenticity	of this sample	. I am awa	re that tampering with or intentionally mislabel	ing the sa	mple loc	ation	, date	or time	e of co	llection	n is cor	nsidere	ed frau	d and	may b	e ground	ds for	legal action.		
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Printed: 8/22/2024 12:46:07PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	08/22/24	05:30		Work Order ID:	E408187
Phone:	(575) 988-0055	Date Logged In:	08/21/24	16:48		Logged In By:	Noe Soto
Email:		Due Date:	08/28/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Ourier		
	e COC complete, i.e., signatures, dates/times, reques	ited analyses?	Yes	Carrier. <u>C</u>	<u>Journer</u>		
	ill samples received within holding time?	ioa anaryses.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic					Comment	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	Container	temperature. <u>1</u>	<u> </u>				
	queous VOC samples present?		No				
	/OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?	)	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field La	· · ·	iers conceica.	103				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	TITI COLL	Yes				
	Date/Time Collected?		Yes				
C	Collectors name?		No				
Sample 1	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	rv?	No				
	a subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	· NA		
	nstruction			2000011110121			
CHEIL	usti uction						

Page 40 of 40

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E408195

Job Number: 23003-0002

Received: 8/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/29/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/29/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E408195

Date Received: 8/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2024 5:30:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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Envirotech Web Address: www.envirotech-inc.com



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## Sample Summary

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Donouted.
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 - 0'	E408195-01A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH08 - 1'	E408195-02A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 0	E408195-03A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 2'	E408195-04A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 4'	E408195-05A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 6'	E408195-06A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH10 - 0'	E408195-07A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH10 - 2'	E408195-08A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH10 - 3'	E408195-09A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH11 - 0'	E408195-10A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH11 - 1'	E408195-11A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH12 - 0'	E408195-12A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH12 - 1'	E408195-13A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH08 - 0' E408195-01

		2.001/0 01					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434083
Benzene	ND	0.0250		1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250		1	08/23/24	08/28/24	
Toluene	ND	0.0250		1	08/23/24	08/28/24	
o-Xylene	ND	0.0250		1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500		1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0		1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/23/24	08/24/24	
Surrogate: n-Nonane		95.0 %	50-200		08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2434085
Chloride	ND	100		5	08/23/24	08/23/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH08 - 1' E408195-02

Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434083
Benzene	ND	0.0250		1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250		1	08/23/24	08/28/24	
Toluene	ND	0.0250		1	08/23/24	08/28/24	
o-Xylene	ND	0.0250		1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500		1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0		1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/23/24	08/24/24	
Surrogate: n-Nonane		101 %	50-200		08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2434085
Chloride	300	200		10	08/23/24	08/23/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH09 - 0 E408195-03

		E400173-03				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	156	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	92.7	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		104 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ai	nalyst: JM		Batch: 2434085
Chloride	41500	2000	100	08/23/24	08/23/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH09 - 2' E408195-04

		E400173-04					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2434083
Benzene	ND	0.0250	1	ļ.	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1		08/23/24	08/28/24	
Toluene	ND	0.0250	1		08/23/24	08/28/24	
o-Xylene	ND	0.0250	1		08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1		08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1		08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1		08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/23/24	08/24/24	
Surrogate: n-Nonane		96.0 %	50-200		08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2434085
Chloride	4090	400	20	0	08/23/24	08/23/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH09 - 4' E408195-05

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Volatile Organic Compounds by EPA 8260B	ND	0.0250	1	08/23/24	08/28/24	Batch: 2434003
Benzene	ND ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND ND	0.0250	1	08/23/24	08/28/24	
Toluene			1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND ND	0.0500 0.0250	1	08/23/24	08/28/24	
Total Xylenes	ND					
Surrogate: Bromofluorobenzene		115 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	-
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		97.4 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2434085
Chloride	593	20.0	1	08/23/24	08/23/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH09 - 6' E408195-06

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		96.0 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2434085
	265	20.0		08/23/24	08/23/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH10 - 0' E408195-07

Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434083
Benzene	ND	0.0250		1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250		1	08/23/24	08/28/24	
Toluene	ND	0.0250		1	08/23/24	08/28/24	
o-Xylene	ND	0.0250		1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500		1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0		1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/23/24	08/28/24	
Surrogate: n-Nonane		96.2 %	50-200		08/23/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2434085
Chloride	9520	400	2	20	08/23/24	08/23/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH10 - 2' E408195-08

Dl4			··-	Dunnand	A malama 1	Notes
Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: R	KS		Batch: 2434083
ND	0.0250	1		08/23/24	08/28/24	
ND	0.0250	1		08/23/24	08/28/24	
ND	0.0250	1		08/23/24	08/28/24	
ND	0.0250	1		08/23/24	08/28/24	
ND	0.0500	1		08/23/24	08/28/24	
ND	0.0250	1		08/23/24	08/28/24	
	107 %	70-130		08/23/24	08/28/24	
	89.0 %	70-130		08/23/24	08/28/24	
	107 %	70-130		08/23/24	08/28/24	
mg/kg	mg/kg	A	Analyst: R	KS		Batch: 2434083
ND	20.0	1		08/23/24	08/28/24	
	107 %	70-130		08/23/24	08/28/24	
	89.0 %	70-130		08/23/24	08/28/24	
	107 %	70-130		08/23/24	08/28/24	
mg/kg	mg/kg	A	Analyst: N	V		Batch: 2434077
ND	25.0	1		08/23/24	08/28/24	
ND	50.0	1		08/23/24	08/28/24	
	104 %	50-200		08/23/24	08/28/24	
mg/kg	mg/kg	A	Analyst: JN	М		Batch: 2434085
611	200	10	)	08/23/24	08/23/24	
	ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO7 %         89.0 %           107 %         89.0 %           107 %         89.0 %           107 %         107 %           mg/kg         mg/kg           ND         25.0           ND         50.0           104 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           107 %         70-130         70-130           89.0 %         70-130         70-130           mg/kg         mg/kg         107 %           ND         20.0         1           107 %         70-130         107 %           mg/kg         mg/kg         107 %           ND         25.0         1           ND         50.0         1           104 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst: R           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         89.0 %           89.0 %         70-130         70-130           mg/kg         mg/kg         Analyst: R           ND         20.0         1           107 %         70-130         70-130           mg/kg         mg/kg         Analyst: N           ND         25.0         1           ND         50.0         1           104 %         50-200           mg/kg         Mg/kg         Analyst: N	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/23/24           ND         0.0250         1         08/23/24           ND         0.0250         1         08/23/24           ND         0.0250         1         08/23/24           ND         0.0500         1         08/23/24           ND         0.0250         1         08/23/24           89.0 %         70-130         08/23/24           89.0 %         70-130         08/23/24           107 %         70-130         08/23/24           MD         20.0         1         08/23/24           89.0 %         70-130         08/23/24           89.0 %         70-130         08/23/24           107 %         70-130         08/23/24           107 %         70-130         08/23/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         08/23/24           ND         50.0         1         08/23/24           ND         50.0         1         08/23/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/23/24         08/28/24           ND         0.0500         1         08/23/24         08/28/24           ND         0.0250         1         08/23/24         08/28/24           ND         0.0250         1         08/23/24         08/28/24           89.0 %         70-130         08/23/24         08/28/24           89.0 %         70-130         08/23/24         08/28/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/23/24         08/28/24           89.0 %         70-130         08/23/24         08/28/24           89.0 %         70-130         08/23/24         08/28/24           mg/kg         mg/kg         Analyst: NV           ND         50.0         1



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH10 - 3' E408195-09

		E400173-07					
Analista	Result	Reporting Limit	Dilu	tion	Duamanad	Analyzad	Notes
Analyte	Kesuit	Limit	Dilu	uon	Prepared	Analyzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst:	RKS		Batch: 2434083
Benzene	ND	0.0250	1		08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1		08/23/24	08/28/24	
Toluene	ND	0.0250	1		08/23/24	08/28/24	
o-Xylene	ND	0.0250	1		08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1		08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1		08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		106 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst:	RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		106 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1		08/23/24	08/28/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	08/23/24	08/28/24	
Surrogate: n-Nonane		101 %	50-200		08/23/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	JM		Batch: 2434085
Chloride	317	20.0	1		08/23/24	08/23/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH11 - 0' E408195-10

		E400173-10				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		99.2 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2434085
Chloride	1930	200	10	08/23/24	08/23/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH11 - 1' E408195-11

		E400175-11					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
·					•		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2434083
Benzene	ND	0.0250	1	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/23/24	08/28/24	
Surrogate: n-Nonane	·	97.2 %	50-200		08/23/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2434085
Chloride	270	200	1	.0	08/23/24	08/24/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH12 - 0' E408195-12

		E400173-12					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: RK	XS .		Batch: 2434083
Benzene	ND	0.0250	1		08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1		08/23/24	08/28/24	
Toluene	ND	0.0250	1		08/23/24	08/28/24	
o-Xylene	ND	0.0250	1		08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1		08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1		08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2434083	
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV	7		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1		08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/23/24	08/28/24	
Surrogate: n-Nonane		106 %	50-200		08/23/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM	[		Batch: 2434085
Chloride	415	200	10	0	08/23/24	08/24/24	
Chloride	415	200	10	0	08/23/24	08/24/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:22:30PM

#### BH12 - 1' E408195-13

		2.001/0 10					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2434083
Renzene	ND	0.0250		1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250		1	08/23/24	08/28/24	
Toluene	ND	0.0250	į	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250		1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250		1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg mg/kg Analyst: RKS		Batch: 2434083			
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130		08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0		1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/23/24	08/28/24	
Surrogate: n-Nonane		121 %	50-200		08/23/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM			Batch: 2434085
Chloride	321	40.0	2	2	08/23/24	08/24/24	

Black River SWD1 San Mateo Black River Water Management Co. Project Name: Reported: Project Number: 3122 National Parks Hwy. 23003-0002 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/29/2024 1:22:30PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2434083-BLK1) Prepared: 08/23/24 Analyzed: 08/28/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.560 0.500 112 70-130 Surrogate: 1,2-Dichloroethane-d4 0.456 0.500 91.2 70-130 0.500 106 70-130 Surrogate: Toluene-d8 0.530 LCS (2434083-BS1) Prepared: 08/23/24 Analyzed: 08/28/24 2.20 0.0250 2.50 87.8 70-130 Benzene 2.22 2.50 70-130 88.6 Ethylbenzene 0.0250 2.52 0.0250 2.50 101 70-130 70-130 2.33 0.0250 2.50 93.2 o-Xylene 4.57 91.4 70-130 p,m-Xylene 0.0500 5.00 6.90 0.0250 7.50 92.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.498 0.500 99.6 70-130 0.500 93.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.466 70-130 Surrogate: Toluene-d8 0.500 0.550 Matrix Spike (2434083-MS1) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24 2.15 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.30 0.0250 2.50 ND 92.0 48-130 Toluene 2.38 0.0250 2.50 ND 95.4 2.46 0.0250 2.50 ND 98.2 43-135 o-Xylene 4.89 ND 97.7 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 7.34 0.0250 7.50 ND 97.9 43-135 0.532 0.500 106 70-130 Surrogate: Bromofluorobenzene 0.500 91.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.460 70-130 0.529 0.500

Source: E408195-05

87.5

93.0

96.5

99.6

98.7

99.0

106

97.1

105

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

1.57

1.08

1.21

1.41

1.02

1.15

ND

ND

ND

ND

ND

ND



Prepared: 08/23/24 Analyzed: 08/28/24

23

27

24

27

27

27

Surrogate: Toluene-d8

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2434083-MSD1)

2.19

2.32

2.41

2.49

4.94

7.43

0.532

0.486

0.523

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo8/29/20241:22:30PM

	Non	by EPA 80	15D - G	RO	A	Analyst: RKS			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434083-BLK1)						I	Prepared: 0	8/23/24 Anal	yzed: 08/28/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS2)					Prepared: 08/23/24 Analyzed: 08/28/24	
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	98.9	70-130	
Surrogate: Bromofluorobenzene	0.569		0.500	114	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500	90.9	70-130	
Surrogate: Toluene-d8	0.538		0.500	108	70-130	

Matrix Spike (2434083-MS2)		Source: E40				)5	Prepared: 08/23/24 Analyzed: 08/28/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130	
Surrogate: Toluene-d8	0.536		0.500		107	70-130	

Matrix Spike Dup (2434083-MSD2)			Source:	E408195-0	05	Prepared: 08/23/24 Analyzed: 08/26/24					
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	3.23	20			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130					
Surrogate: Toluene-d8	0.535		0.500		107	70-130					

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo8/29/20241:22:30PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			8/.	29/2024 1:22:30PN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO		_	Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434077-BLK1)							Prepared: 0	8/23/24 Ana	lyzed: 08/24/24
Diesel Range Organics (C10-C28)	ND	25.0							
oil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.4		50.0		92.7	50-200			
LCS (2434077-BS1)							Prepared: 0	8/23/24 Ana	lyzed: 08/24/24
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
urrogate: n-Nonane	50.4		50.0		101	50-200			
Matrix Spike (2434077-MS1)				Source:	E408195-	01	Prepared: 0	8/23/24 Ana	lyzed: 08/24/24
Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
urrogate: n-Nonane	47.9		50.0		95.8	50-200			
Matrix Spike Dup (2434077-MSD1)				Source:	E408195-	01	Prepared: 0	8/23/24 Ana	lyzed: 08/24/24
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	3.11	20	
urrogate: n-Nonane	47.7		50.0		95.3	50-200			

San Mateo Black River Water Manage 3122 National Parks Hwy.	ment Co.	Project Name: Project Number:		ack River SW 003-0002	D1				Reported:
Carlsbad NM, 88220		Project Manager:	As	shley Gioveng	ço.				8/29/2024 1:22:30PM
		Anions	by EPA 3	00.0/9056 <i>A</i>	1				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Dlank (2424005 DI I/1)							D 1.0	0/00/04	
Blank (2434085-BLK1)							Prepared: 0	8/23/24 A	analyzed: 08/23/24
Chloride	ND	20.0					Prepared: 0	8/23/24 A	analyzed: 08/23/24
,	ND	20.0							Analyzed: 08/23/24 Analyzed: 08/23/24
Chloride	ND 252	20.0	250		101	90-110			
Chloride LCS (2434085-BS1)			250	Source:	101 <b>E408192-</b>		Prepared: 0	8/23/24 A	
Chloride LCS (2434085-BS1) Chloride			250 250	Source:			Prepared: 0	8/23/24 A	analyzed: 08/23/24
Chloride LCS (2434085-BS1) Chloride Matrix Spike (2434085-MS1)	252	20.0		31.0	E408192-	80-120	Prepared: 0	8/23/24 A	analyzed: 08/23/24

#### QC Summary Report Comment:

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



## **Definitions and Notes**

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:22

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 1/3/2025 11:07:54 AM

	Client Information Invoice Information:  ent: San Mater Black River Wither Management Economy Company: Ensolum LLC					ation	Lab Use Only				TAT					State						
Client: Sa	in Mater Bla	ick River	Wheter Man	acoment c	chypony	Company: Ensolum LLC					VO#			Job I	Num	mber 1D 2D 3D St						NM CO UT TX
Project:	Black Riv	ver swi	1	,		Address: 3122 National Pa	arks Hwy		E	40	08	199	5	230	003	-00	SOC			X		X
Project N	lanager: As	hley Giov	engo			City, State, Zip: Carlsbad N	IM, 88220													- (		
Address:	3122 Natio	nal Parks	Hwy			Phone: 575-988-0055								Ana	lysis	and	Met	hod				EPA Program
4000	e, Zip: Carls		88220			Email: agiovengo@ensol	lum.com															SDWA CWA RCRA
700 - a ca-1	575-988-005					Miscellaneous:																
Email: a	giovengo@e	nsolum.c	om								8015	8015										Compliance Y or N
											by 80	oy 80	21	09	0.00	Σ	×	tals				PWSID #
				Samp	le Infor	mation					ORO	NO.	y 80	y 826	Je 3C	N.	- 500	3 Me				
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID		Field	Lab Numb	er	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
902	8/21/2	Soil	1	Bt	108	-0'			1							X						
905		1	1	B	409	5-1			2							X						
921				Bt	409	-0			3							X						
1013				BH	109	- 2'			4							X						
1023				BY	409	- Y'			5							X						
1107				BH	409	-6'			6							X						
923				Bt	110	-0'			7							X						
932				BH	10-	- 2'			8							X						
935				BH	410.	- 3'			9							X						
957				BH	+11-	-0'			10	)						X						
Addition	al Instructio	ns: Plea	ase CC: cb	urton@ei	nsolum.	com, agiovengo@ensolum.c	om, iestr	ella@	ensol	lum.	.con	n, bd	eal@	ens	olum	.con	n, ch	amilt	on@	ensol	um	.com,
	ns@ensolum																					
		a programme and		of this sample	e. I am awa	are that tampering with or intentionally	mislabeling t	the sar	nple locat	tion,	date	or time	e of co	llectio	n is co	nsider	ed frau	d and	may be	ground	s for	legal action.
	Cole Burton a	100000000000000000000000000000000000000	Date		Time	Described by (Cinest (C)		Data		1-	Time		-			Sampl	os ronu	iring the	ermal n	reservatio	n mu	ist be received on ice the day they are
Keiinduisii	ed by: (Signatu	re)	4.75	22/24	10:1	Received by: (Signature)	2	2-7	12-14		Time	15				sample	ed or re	ceived				temp above 0 but less than 6 °C on
	ed by: (Signatu	re)	Date	12-24	Time 163	Received by: (Signature)		Date	2.74		Time /63						eivec		ice:	Lab		se Only
	ed by: (Signatur	000	Date Q.1	2.24	Time 224	Received by: (Signature)	Heele	Date	23.2	7	Time	530	2			T1				T2		Т3
	d by: (Signature)  Date  Time  Received by: (Signature)				100	Date			Time					AVC	Ten	o° an	- (	1				
									tainer T							c, ag	- aml	oer gl	ass, v			
	ple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other e: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous															e clier	nt exp	ense.	The rep	ort	for the analysis of the above	
samples is	applicable only	to those sa	amples recei	ved by the	laboratory	y with this COC. The liability of the	laboratory i	is limi	ted to th	ne an	noun	t paid	for c	n the	repo	rt.						

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Client:40	n Matec Black	k River	Noter Mo	ragument C	Drypony	Company: Ensolum LLC			Lab \	WO#			Job	Num	ber		1D	2D	3D S	td	NM C	OUT	TX
Project:	Black Rive	C SWD	1	-	,,,,,	Address: 3122 National Parks	Hwy				319	<				002				X	X		
	Nanager: As					City, State, Zip: Carlsbad NM,			_		21.1	_											
	3122 Natio					Phone: 575-988-0055	JOZZO		ſ				Δns	lycic	and	Met	hod	_			FDΔ	Progra	m
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	575-988-005				-	Miscellaneous:															Cl'	Lv	au N
Email: a	giovengo@e	nsolum.c	.om				-			015	215										Compliance	Y	or N
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	r			Sam	ple Inform	ation		1		8	RO	y 80	826	e 3C	Z	- 500	Me						
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	La Num	100	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				R	lemarks	
1007	8/21/24	Soil	1		BHIL	- 1'		1	1						X								
1033					BH 12	-0		1	2						χ								
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7.5			ase CC: o	burton@	ensolum.co	om, agiovengo@ensolum.com,	iestrella	@ens	olum	ı.cor	n, bd	leal@	ens	olun	n.cor	n, ch	amil	ton@	enso	um	.com,		
	ns@ensolum pler), attest to the		dauthentici	ty of this samp	ole. I am aware	that tampering with or intentionally misla	beling the s	ample lo	cation	, date	or tim	e of co	llectio	n is co	nsider	ed fra	ıd and	may b	e ground	ls for	legal action.		
	:Cole Burton a																						
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Sample Mar	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aq	ueous, <b>O</b> - Oth	er		Со	ntainer	Туре	e: g -	glass	, p - I	oly/	olasti	c, ag	- am	oer g	ass,	v - VOA				
				THE PARTY OF THE P		ther arrangements are made. Hazardo with this COC. The liability of the labor										e clie	nt exp	ense.	The rep	ort	for the analys	is of the	above



envirotech Inc.

Printed: 8/23/2024 10:50:58AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

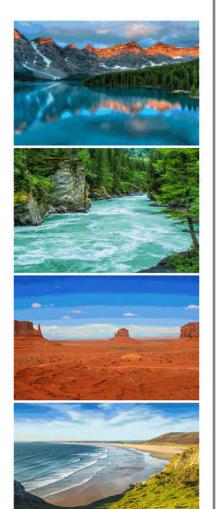
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	08/23/24 (	05:30		Work Order ID:	E408195
Phone:	(575) 988-0055	Date Logged In:	08/22/24	16:59		Logged In By:	Noe Soto
Email:		Due Date:	08/29/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does tl	he sample ID match the COC?		Yes				
	he number of samples per sampling site location ma	tch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	ourier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	e <u>e</u>	<del> </del>		
5. Were a	all samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi			_		Comments	s/Resolution
Sample 1	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
-	ne sample received on ice? If yes, the recorded temp is 4°C.	ie 6°+2°C	Yes				
12. was ti	Note: Thermal preservation is not required, if samples ar		168				
	minutes of sampling						
13. If no	visible ice, record the temperature.  Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container_						
14. Are a	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	a trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct containers	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal	bel						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	Pate/Time Collected?		Yes	L			
C	Collectors name?		No				
	Preservation _						
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborato	ry?	No				
	a subcontract laboratory specified by the client and i	-	NA	Subcontract Lab	: NA		
	nstruction_						
Chent II	isti uction						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Black River SWD#1

Work Order: E409094

Job Number: 23003-0002

Received: 9/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/17/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/17/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Black River SWD#1

Workorder: E409094

Date Received: 9/13/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Black River SWD#1.

The analytical test results summarized in this report with the Project Name: Black River SWD#1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** 

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

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## Sample Summary

Matador Resources, LLC.	Project Name:	Black River SWD#1	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/17/24 11:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS06 - 0'	E409094-01A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06 - 1'	E409094-02A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06A - 0'	E409094-03A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06A - 1'	E409094-04A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06B - 0'	E409094-05A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06B - 1'	E409094-06A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06C - 0'	E409094-07A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06C - 1'	E409094-08A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06D - 0'	E409094-09A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06D - 1'	E409094-10A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	Black River SWD#1	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:57:38AM

#### SS06 - 0' E409094-01

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2437075
Benzene	ND	0.0250	1		09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1		09/13/24	09/13/24	
Toluene	ND	0.0250	1		09/13/24	09/13/24	
o-Xylene	ND	0.0250	1		09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1		09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1		09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8		111 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8		111 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV	/		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1		09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1		09/13/24	09/15/24	
Surrogate: n-Nonane		74.6 %	50-200		09/13/24	09/15/24	
A: b EDA 200 0/005/ A	mg/kg	mg/kg	A	Analyst: DT	٢		Batch: 2437097
Anions by EPA 300.0/9056A	mg/kg	mg/kg		mary ser B 1			Battern 2 15 7 0 7 7



Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

#### SS06 - 1'

		E409094-02				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		80.3 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2437097
Chloride	227	200	10	09/13/24	09/14/24	<u> </u>



Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

SS06A - 0' E409094-03

		Reporting					
Analyte	Result	Limit	Diluti	ion Prep	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY			Batch: 2437075
Benzene	ND	0.0250	1	09/1	3/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/1	3/24	09/13/24	
Toluene	ND	0.0250	1	09/1	3/24	09/13/24	
o-Xylene	ND	0.0250	1	09/1	3/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/1	3/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/1	3/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/1	3/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	09/1	3/24	09/13/24	
Surrogate: Toluene-d8		110 %	70-130	09/1	3/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: IY			Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/1	3/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/1	3/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	09/1	3/24	09/13/24	
Surrogate: Toluene-d8		110 %	70-130	09/1	3/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: NV			Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/1	3/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/1	3/24	09/15/24	
Surrogate: n-Nonane		79.8 %	50-200	09/1	3/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT			Batch: 2437097
Chloride	1870	200	10	09/1	3/24	09/14/24	

Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

#### SS06A - 1' E409094-04

		2.0,0,101				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
,	mg/kg	mg/kg		nalyst: IY	1 111111 ) 2.04	Batch: 2437075
Volatile Organic Compounds by EPA 8260B		<u> </u>		09/13/24	09/13/24	Datch: 243/0/3
Benzene	ND	0.0250	1			
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		77.5 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2437097
Chloride	149	40.0	2	09/13/24	09/14/24	

Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

SS06B - 0' E409094-05

		E407074-03				
	D 1	Reporting				27.
Analyte	Result	Limit	Diluti	ion Prepa	red Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13	/24 09/13/24	
Ethylbenzene	ND	0.0250	1	09/13	/24 09/13/24	
Toluene	ND	0.0250	1	09/13	/24 09/13/24	
o-Xylene	ND	0.0250	1	09/13	/24 09/13/24	
p,m-Xylene	ND	0.0500	1	09/13	/24 09/13/24	
Total Xylenes	ND	0.0250	1	09/13	/24 09/13/24	
Surrogate: Bromofluorobenzene	·	105 %	70-130	09/13	/24 09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/13	/24 09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13	/24 09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13	/24 09/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13	/24 09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/13	/24 09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13	/24 09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13	/24 09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13	/24 09/15/24	
Surrogate: n-Nonane		77.9 %	50-200	09/13.	/24 09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2437097
Chloride	823	200	10	09/13	/24 09/14/24	



Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

#### SS06B - 1' E409094-06

		E-107074-00					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
·				Analyst:	•	7 mary 2ca	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Anaiysi:			Batch: 2437075
Benzene	ND	0.0250	1		09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	ļ	09/13/24	09/13/24	
Toluene	ND	0.0250	1	l	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	l	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	l	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	l	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1		09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[	09/13/24	09/15/24	
Surrogate: n-Nonane		78.4 %	50-200		09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2437097
Chloride	290	200	10	0	09/13/24	09/14/24	



Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

SS06C - 0' E409094-07

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		79.1 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2437097
Chloride	530	200	10	09/13/24	09/14/24	



Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

SS06C - 1' E409094-08

		E409094-08					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2437075
Benzene	ND	0.0250	1		09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1		09/13/24	09/13/24	
Toluene	ND	0.0250	1		09/13/24	09/13/24	
o-Xylene	ND	0.0250	1		09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1		09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1		09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst:	IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst:	NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1		09/13/24	09/15/24	_
Oil Range Organics (C28-C36)	ND	50.0	1		09/13/24	09/15/24	
Surrogate: n-Nonane		83.7 %	50-200		09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	DT		Batch: 2437097
Chloride	ND	200	10	0	09/13/24	09/14/24	

Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

SS06D - 0' E409094-09

		E-107074-07				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Analyte	Result	Limit	Diluti	on Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene	·	102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		84.3 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	.nalyst: DT		Batch: 2437097
Chloride	241	200	10	09/13/24	09/14/24	



Matador Resources, LLC.Project Name:Black River SWD#15400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

SS06D - 1' E409094-10

		E-107074-10				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Diluti	ion Frepared	Anatyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		75.6 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2437097
Chloride	206	200	10	09/13/24	09/14/24	



Matador Resources, LLC.
Project Name:
Black River SWD#1

Reported:
5400 LBJ Freeway, Suite 1500
Project Number:
23003-0002

Dallas TX, 75240
Project Manager:
Ashley Giovengo
9/17/2024 11:57:38AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			9/17	7/2024 11:57:38A
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437075-BLK1)							Prepared: 0	9/13/24 Analy	yzed: 09/13/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			
LCS (2437075-BS1)							Prepared: 0	9/13/24 Analy	yzed: 09/13/24
Benzene	2.16	0.0250	2.50		86.2	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Foluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.65	0.0500	5.00		92.9	70-130			
Total Xylenes	6.96	0.0250	7.50		92.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
Matrix Spike (2437075-MS1)				Source:	E409094-	02	Prepared: 0	9/13/24 Analy	yzed: 09/13/24
Benzene	2.12	0.0250	2.50	ND	84.7	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135			
Toluene	2.30	0.0250	2.50	ND	91.9	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.4	43-135			
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135			
Total Xylenes	6.86	0.0250	7.50	ND	91.4	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			
Matrix Spike Dup (2437075-MSD1)				Source:	E409094-	02	Prepared: 0	9/13/24 Analy	yzed: 09/13/24
Benzene	1.87	0.0250	2.50	ND	74.9	48-131	12.3	23	
Ethylbenzene	2.05	0.0250	2.50	ND	82.0	45-135	12.3	27	
Toluene	2.05	0.0250	2.50	ND	82.2	48-130	11.1	24	
o-Xylene	2.07	0.0250	2.50	ND	82.9	43-135	9.68	27	
p,m-Xylene	4.13	0.0500	5.00	ND	82.6	43-135	10.1	27	
Total Xylenes	6.21	0.0250	7.50	ND	82.7	43-135	9.98	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
			0.500		105	50.120			

0.500

107

70-130

0.537

Surrogate: Toluene-d8

Analyst: IY

# **QC Summary Data**

Matador Resources, LLC.Project Name:Black River SWD#1Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

Nonhalogenated Organics by EPA 8015D - GRO
--

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	2	Lever	1000010	ICCC	2111110	1412	2	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437075-BLK1)							Prepared: 0	9/13/24	Analyzed: 09/13/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			
LCS (2437075-BS2)							Prepared: 0	9/13/24	Analyzed: 09/13/24
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			
Matrix Spike (2437075-MS2)				Source:	E409094-	02	Prepared: 0	9/13/24	Analyzed: 09/13/24
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			
Matrix Spike Dup (2437075-MSD2)				Source:	E409094-	02	Prepared: 0	9/13/24	Analyzed: 09/13/24
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	2.08	20	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			



Matador Resources, LLC.Project Name:Black River SWD#1Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/17/2024 11:57:38AM

Bullus 171, 732 10		Troject Manage	. 710	mey Groveng	-				
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437091-BLK1)							Prepared: 0	9/13/24 Analy	/zed: 09/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			
LCS (2437091-BS1)							Prepared: 0	9/13/24 Anal	zed: 09/14/24
Diesel Range Organics (C10-C28)	200	25.0	250		80.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.3	50-200			
Matrix Spike (2437091-MS1)				Source:	E409093-	09	Prepared: 0	9/13/24 Analy	zed: 09/14/24
Diesel Range Organics (C10-C28)	207	25.0	250	ND	83.0	38-132			
Surrogate: n-Nonane	40.4		50.0		80.7	50-200			
Matrix Spike Dup (2437091-MSD1)				Source:	E409093-	09	Prepared: 0	9/13/24 Anal	zed: 09/14/24
Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.4	38-132	1.88	20	
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			

## **QC Summary Data**

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	9/17/2024 11:57:38AM
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

	Anions by EPA 300.0/9056A											
Analyte	Reporting Spike Source Rec Result Limit Level Result Rec Limits							RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2437097-BLK1)							Prepared: 0	9/13/24 Aı	nalyzed: 09/13/24			
Chloride	ND	20.0										
LCS (2437097-BS1)							Prepared: 0	9/13/24 Aı	nalyzed: 09/13/24			
Chloride	255	20.0	250		102	90-110						
Matrix Spike (2437097-MS1)		Source: E409094-04						9/13/24 Aı	nalyzed: 09/14/24			
Chloride	404	40.0	250	149	102	80-120						
Matrix Spike Dup (2437097-MSD1)				Source:	E409094-	04	Prepared: 0	9/13/24 Aı	nalyzed: 09/14/24			
Chloride	401	40.0	250	149	101	80-120	0.599	20				

#### QC Summary Report Comment:

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



#### **Definitions and Notes**

Matador Resources, LLC.	Project Name:	Black River SWD#1	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/17/24 11:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 1/3/2025 11:07:54 AM

	Clie	nt Inform	ation			Invoice Information					Lal	b Us	e On	enly TAT State									
	latador Prod					Company: Ensolum LLC		La	aþ V	VO#	~~		Job i				1D 2D 3D Std			Std	NM CC	UT	TX
	Black F				-	Address: 3122 National Parks Hwy		E	<u> 9</u>	$ ho_{c}$	109	171	<u>23</u> (	$\mathcal{X}_{i}$	<u>· 00</u>	02		•		X	TXT	<u>i                                     </u>	
	lanager: Asl					City, State, Zip: Carlsbad NM, 88220																N	
	3122 Nation					Phone: 575-988-0055			Analy						and	Meti	100				SDWA CWA RCRA		
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Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Num Field Fa		er	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Re	marks	
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l, (field samp		e validity and		of this sampl	e. I am aware	that tampering with or intentionally mislabeling	the sa	mple loca	ition,	date d	or time	of co	lection	n is co	sidere	d frau	d and	may b	e grou	nds for	legal action.		
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Religioushed by (Signature)  Proposed Grandes 9-1324 0220 Club Marie					. IDate	13.14	4		45	-			Received on ice:					Lab Use Only Y/N					
Relinquished by: (Signature)  Date  Time  Received by: (Signature)					Date			Time					T1 T2				<u>T3</u>	l					
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Printed: 9/13/2024 9:02:26AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	09/13/24 0	07:45	Work Order ID:	E409094
Phone:	(972) 371-5200	Date Logged In:	09/12/24	12:59	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/19/24	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Couier	<u>t</u>	
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comment</u>	ts/Resolution
Sample T	Curn Around Time (TAT)					
	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes.	, were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
Sample C	•		_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	•					
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	<u> </u>		
C	ollectors name?		Yes			
	reservation					
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
27. If yes,	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: NA		
Client Ir	nstruction_					
<u>Chent II</u>	isti uction					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E411135

Job Number: 23003-0002

Received: 11/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/15/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/15/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E411135

Date Received: 11/14/2024 8:00:57AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/14/2024 8:00:57AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Michelle Gonzales** 

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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#### **Sample Summary**

Γ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Domonto do
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/24 14:29

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container	
FS03 @ 2'	E411135-01A Soil	11/12/24	11/14/24	Glass Jar, 2 oz.	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/2024 2:29:10PM

FS03 @ 2' E411135-01

		E411135-01					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2446117	
Benzene	ND	0.0250	1	11/14/24	11/14/24		
Ethylbenzene	ND	0.0250	1	11/14/24	11/14/24		
Toluene	ND	0.0250	1	11/14/24	11/14/24		
o-Xylene	ND	0.0250	1	11/14/24	11/14/24		
p,m-Xylene	ND	0.0500	1	11/14/24	11/14/24		
Total Xylenes	ND	0.0250	1	11/14/24	11/14/24		
Surrogate: 4-Bromochlorobenzene-PID		86.0 %	70-130	11/14/24	11/14/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2446117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/14/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	11/14/24	11/14/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2446115	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/14/24		
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/14/24		
Surrogate: n-Nonane		107 %	50-200	11/14/24	11/14/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2446112	
Chloride	968	200	10	11/14/24	11/14/24		

p,m-Xylene

Benzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

LCS Dup (2446117-BSD1)

#### **QC Summary Data**

		₹ € ≈.		<i>j</i> =	-				
San Mateo Black River Water Mar 3122 National Parks Hwy. Carlsbad NM, 88220	nagement Co.	Project Name: Project Number: Project Manager:	23	lack River SW 3003-0002 shley Giovens				1	Reported: 1/15/2024 2:29:10PM
Carisoda 1411, 00220				y EPA 802					Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	<u> </u>
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446117-BLK1)							Prepared: 1	1/14/24 An	alyzed: 11/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			
LCS (2446117-BS1)							Prepared: 1	1/14/24 An	alyzed: 11/14/24
Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.8	70-130			
Toluene	4.69	0.0250	5.00		93.7	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
•									

10.0

15.0

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

94.5

94.2

90.1

98.6

99.5

100

100

101

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

6.73

7.04

6.68

6.77

6.89

Prepared: 11/14/24 Analyzed: 11/14/24

20

20

20

20

20

9.45

14.1

7.21

4.93

4.98

5.01

5.00

10.1

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

envirotech Inc.	
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San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo11/15/20242:29:10PM

Nonhalogenated	Organics by	z EPA 8015D	- GRO

Analyst: SL

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2446117-BLK1)						Prepared: 1	1/14/24	Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00	90.1	70-130			
LCS (2446117-BS2)						Prepared: 1	1/14/24	Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	38.7	20.0	50.0	77.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00	90.9	70-130			
LCS Dup (2446117-BSD2)						Prepared: 1	1/14/24	Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	81.6	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00	91.4	70-130			



San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo11/15/20242:29:10PM

Curisbua 1411, 00220		r roject ivianage.	. 715	iney Groveng	-					
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO		Analyst: AF		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2446115-BLK1)							Prepared: 1	1/14/24 Anal	yzed: 11/14/24	
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	57.7		50.0		115	50-200				
LCS (2446115-BS1)							Prepared: 1	1/14/24 Anal	yzed: 11/14/24	
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132				
Surrogate: n-Nonane	53.0		50.0		106	50-200				
Matrix Spike (2446115-MS1)				Source:	E411137-0	)3	Prepared: 1	1/14/24 Anal	yzed: 11/14/24	
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132				
Surrogate: n-Nonane	56.6		50.0		113	50-200				
Matrix Spike Dup (2446115-MSD1)				Source:	E411137-0	)3	Prepared: 1	1/14/24 Anal	yzed: 11/15/24	
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	5.44	20		
Surrogate: n-Nonane	60.5		50.0		121	50-200				

San Mateo Black River Water Manag 3122 National Parks Hwy.	gement Co.	Project Name: Project Number:	_	lack River SW 3003-0002	/D1				Reported:
Carlsbad NM, 88220		Project Manager	Manager: Ashley Giovengo						11/15/2024 2:29:10PM
Anions by EPA 300.0/9056A									Analyst: WF
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2446112-BLK1)							Prepared: 11	1/13/24 Aı	nalyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446112-BS1)							Prepared: 11	1/13/24 Aı	nalyzed: 11/14/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446112-BSD1)							Prepared: 11	1/13/24 Aı	nalyzed: 11/14/24
Chloride	257	20.0	250		103	90-110	0.230	20	

#### QC Summary Report Comment:

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



### **Definitions and Notes**

	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
-	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/24 14:29

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

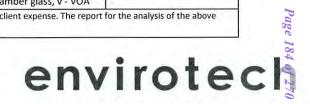
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page	of	Rea
TX		Received by OCD: 12/4/2024 12:00:24 AM -
RCRA		CD: 12,
or N		/4/2024
		12:00:
N OTHER TESTS		24 AM

	Clie	nt Inform	ation			Invoice Information			Lab Use On							nly TAT			State				
Client:Sa	n Mateo Blad	k River V	Vater Man	agement		Cor	mpany: Ensolum LLC			Lab \	WO#		_	Job	Num	ber		1D 2D 3D Sto		NM	CO UT	TX	
Project:	Black	River SV	VD 1			Add	dress: 3122 National Parks H	wy		E۷	111	133	35 23003.0002				S	X		X	X		
Project N	Aanager: Asl	nley Giov	engo			City	, State, Zip: Carlsbad NM, 88	220															
Address:	3122 Nation	nal Parks	Hwy			Pho	ne: 575-988-0055							Ana	lysis	and	Met	hod			EP/	A Progra	m
City, Stat	e, Zip: Carls	bad NM,	88220			Em	ail: agiovengo@ensolum.co	m			1					-		-			SDWA	CWA	RCRA
77.7	575-988-005						cellaneous:											51.15					
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						_					8015	801			0			<u>s</u>			PWSID#		
				Samp	ole Info	matic	on				to by	lo by	8021	8260	300,	- NM	XT - 20	Meta					
Time Sampled	Date Sampled	Matrix	No. of Containers				Sample ID	Field	La Num	b ber	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
14:30	11/12/2024	S	1				FS03 @ 2'		1							х					IF CHLORIDES >6	00 DO NOT RU	N OTHER TESTS
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455								4															
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Addition	al Instructio	ns: Plea	ase CC: cb	urton@e	nsolum	.com,	agiovengo@ensolum.com, c	hamilto	n@er	nsolu	um.c	om, i	iestr	ella@	ens	olum	.con	n, bd	eal@	ensolun	i.com,		
	ns@ensolum						RUSH CHLORIDES ON tampering with or intentionally mislabe				J.s.	1133		lla atila		. Nation	J 6	2 4			r local setion		
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	ed by: (Signatur		Date		Time		Received by: (Signature)	Date			Time	_	-			Sample	es requ	iring the	ermal pi	reservation m	ust be received o	n ice the da	they are
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Sample Ma	trix: <b>S</b> - Soil, <b>Sd</b> - S	olid, <b>S</b> g - Slu	dge, A - Aquec	us, O - Othe	r			Cor	tainer	Тур	e: g -	glass	, p - r	oly/i	olasti				_	- VOA			
						other	arrangements are made. Hazardou														for the analy	sis of the	above
							this COC. The liability of the laborat											7		- Partie			





Printed: 11/14/2024 8:40:52AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: San Mateo Black River Water Management Co.	Date Received:	11/14/24	08:00	Work Order ID:	E411135
Phone: (575) 988-0055	Date Logged In:	11/13/24	13:47	Logged In By:	Caitlin Mars
Email:	Due Date:	11/14/24	17:00 (0 day TAT)		
Chain of Custody (COC)					
1. Does the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site location ma	atch the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>	
4. Was the COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
<ol> <li>Were all samples received within holding time?</li> <li>Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss</li> </ol>		Yes		<u>Commer</u>	nts/Resolution
Sample Turn Around Time (TAT)				Client Comment DUC	II CIII ODIDEC
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes		Client Comment- RUS	
Sample Cooler				ONLY- If Chlorides >	500 DONT RUN
7. Was a sample cooler received?		Yes		OTHER TESTS	
8. If yes, was cooler received in good condition?		Yes			
9. Was the sample(s) received intact, i.e., not broken?		Yes			
10. Were custody/security seals present?		No			
11. If yes, were custody/security seals intact?		NA			
<ul> <li>12. Was the sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling</li> <li>13. If no visible ice, record the temperature. Actual samples</li> </ul>	re received w/i 15	Yes			
Sample Container					
14. Are aqueous VOC samples present?		No			
15. Are VOC samples collected in VOA Vials?		NA			
16. Is the head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a trip blank (TB) included for VOC analyses?		NA			
18. Are non-VOC samples collected in the correct containers	s?	Yes			
19. Is the appropriate volume/weight or number of sample conta	iners collected?	Yes			
Field Label					
20. Were field sample labels filled out with the minimum inf	ormation:				
Sample ID?		Yes			
Date/Time Collected? Collectors name?		Yes			
Sample Preservation		No			
21. Does the COC or field labels indicate the samples were p	reserved?	No			
22. Are sample(s) correctly preserved?		NA			
24. Is lab filteration required and/or requested for dissolved	metals?	No			
Multiphase Sample Matrix					
	ase?	No			
26. Does the sample have more than one phase i.e. multiple					
26. Does the sample have more than one phase, i.e., multiplication of the control	vzed?				
27. If yes, does the COC specify which phase(s) is to be anal	lyzed?	NA			
27. If yes, does the COC specify which phase(s) is to be ana <u>Subcontract Laboratory</u>					
<ul><li>27. If yes, does the COC specify which phase(s) is to be ana <u>Subcontract Laboratory</u></li><li>28. Are samples required to get sent to a subcontract laborate</li></ul>	ory?	No			
27. If yes, does the COC specify which phase(s) is to be ana <u>Subcontract Laboratory</u>	ory?		Subcontract Lab	o: NA	

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E411139

Job Number: 23003-0002

Received: 11/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E411139

Date Received: 11/14/2024 8:00:57AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/14/2024 8:00:57AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

ſ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
1	3122 National Parks Hwy.	Project Number:	23003-0002	Reported.
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 11:31

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01 @ 1'	E411139-01A Soil	11/12/24	11/14/24	Glass Jar, 2 oz.
FS02 @ 1'	E411139-02A Soil	11/12/24	11/14/24	Glass Jar, 2 oz.
FS04 @ 4'	E411139-03A Soil	11/12/24	11/14/24	Glass Jar, 2 oz.



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 11:31:49AM

### FS01 @ 1' E411139-01

		E411139-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Thatyte	Result	Limit	Dilution	Trepared	Zinaryzed	rotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2446117
Benzene	ND	0.0250	1	11/14/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/16/24	
Coluene	ND	0.0250	1	11/14/24	11/16/24	
-Xylene	ND	0.0250	1	11/14/24	11/16/24	
,m-Xylene	ND	0.0500	1	11/14/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/16/24	
Surrogate: 4-Bromochlorobenzene-PID		88.8 %	70-130	11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2446117
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/16/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: AF		Batch: 2446115
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/15/24	
Surrogate: n-Nonane		118 %	50-200	11/14/24	11/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: WF		Batch: 2446112
Chloride	345	40.0	2	11/14/24	11/14/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 11:31:49AM

### FS02 @ 1' E411139-02

		E-11137-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2446117
Benzene	ND	0.0250	1	11/14/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/16/24	
Toluene	ND	0.0250	1	11/14/24	11/16/24	
o-Xylene	ND	0.0250	1	11/14/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/14/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/16/24	
Surrogate: 4-Bromochlorobenzene-PID		88.2 %	70-130	11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2446117
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2446115
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/15/24	
Surrogate: n-Nonane		118 %	50-200	11/14/24	11/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2446112
Chloride	180	40.0	2	11/14/24	11/14/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 11:31:49AM

#### FS04 @ 4' E411139-03

		E411139-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
. many te	resur			*	111111,200	110105
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2446117
Benzene	ND	0.0250	1	11/14/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/16/24	
Toluene	ND	0.0250	1	11/14/24	11/16/24	
o-Xylene	ND	0.0250	1	11/14/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/14/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/16/24	
Surrogate: 4-Bromochlorobenzene-PID		88.9 %	70-130	11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2446117
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2446115
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/15/24	
Surrogate: n-Nonane		114 %	50-200	11/14/24	11/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2446112
Chloride	512	40.0	2	11/14/24	11/14/24	



p,m-Xylene Total Xylenes

Benzene

Ethylbenzene

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

LCS (2446117-BS1)

### **QC Summary Data**

		€		- J —	-				
San Mateo Black River Water Managemen 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Project Number: Project Manager:	23	ack River SW 003-0002 shley Gioveng				11.	Reported: /18/2024 11:31:49AM	
		Volatile Or	rganics b	y EPA 802	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
Blank (2446117-BLK1)	mg/kg	mg/kg	mg/kg	mg/kg	%	%	% Prepared: 1	% 1/14/24 Ans	Notes
Benzene	ND	0.0250					rrepared. r	1/1 1/21 11110	11/1 1/2 1
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							

ND

ND

7.10

4.61

4.64

7.23

0.0500

0.0250

0.0250

0.0250

Toluene	4.69	0.0250	5.00	93.7	70-130			
o-Xylene	4.67	0.0250	5.00	93.4	70-130			
p,m-Xylene	9.45	0.0500	10.0	94.5	70-130			
Total Xylenes	14.1	0.0250	15.0	94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00	90.1	70-130			
LCS Dup (2446117-BSD1)						Prepared: 11	/14/24 Analy	zed: 11/14/24
Benzene	4.93	0.0250	5.00	98.6	70-130	6.73	20	
Ethylbenzene	4.98	0.0250	5.00	99.5	70-130	7.04	20	
Toluene	5.01	0.0250	5.00	100	70-130	6.68	20	
o-Xylene	5.00	0.0250	5.00	100	70-130	6.77	20	
p,m-Xylene	10.1	0.0500	10.0	101	70-130	6.89	20	
Total Xylenes	15.1	0.0250	15.0	101	70-130	6.85	20	

8.00

5.00

5.00

88.7

92.2

92.8

70-130

70-130

70-130

70-130

Prepared: 11/14/24 Analyzed: 11/14/24

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo11/18/2024 11:31:49AM

Nonhalogenated	Organics by	<b>EPA</b>	8015D -	GRO
----------------	-------------	------------	---------	-----

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2446117-BLK1)						Prepared: 1	1/14/24	Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00	90.1	70-130			
LCS (2446117-BS2)						Prepared: 1	1/14/24	Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	38.7	20.0	50.0	77.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00	90.9	70-130			
LCS Dup (2446117-BSD2)						Prepared: 1	1/14/24	Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	81.6	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00	91.4	70-130			



San Mateo Black River Water Management Co.

Project Name: Black River SWD1

3122 National Parks Hwy.

Project Number: 23003-0002

Carlsbad NM, 88220

Project Manager: Ashley Giovengo 11/18/2024 11:31:49AM

Curisbua 1411, 00220									
	Nonha	logenated Or		Analyst: AF					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446115-BLK1)	x (2446115-BLK1) Prepared								yzed: 11/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.7		50.0		115	50-200			
LCS (2446115-BS1)							Prepared: 1	1/14/24 Anal	yzed: 11/14/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			
Matrix Spike (2446115-MS1)				Source:	E411137-0	)3	Prepared: 1	1/14/24 Anal	yzed: 11/14/24
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			
Matrix Spike Dup (2446115-MSD1)			Source: E411137-03		)3	Prepared: 1	1/14/24 Anal	yzed: 11/15/24	
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	5.44	20	
Surrogate: n-Nonane	60.5		50.0		121	50-200			

Chloride

Chloride

LCS Dup (2446112-BSD1)

257

257

20.0

20.0

### **QC Summary Data**

San Mateo Black River Water Management C 3122 National Parks Hwy. Carlsbad NM, 88220	Co.	Project Name: Project Number: Project Manager	: :	Black River SW 23003-0002 Ashley Gioveng					<b>Reported:</b> 11/18/2024 11:31:49AM
		Anions by EPA 300.0/9056A							Analyst: WF
	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2446112-BLK1)							Prepared: 1	1/13/24 A	nalyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446112-BS1)							Prepared: 1	1/13/24 A	nalyzed: 11/14/24

250

250

103

103

90-110

90-110

0.230

Prepared: 11/13/24 Analyzed: 11/14/24

#### QC Summary Report Comment:

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



## **Definitions and Notes**

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 11:31

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 1/3/2025 11:07:54 AM

Client Information					Invoice Information					La	b Us	e On	ily			TAT						Stat	e			
Client:Sa	n Mateo Blad	k River V	Vater Ma	nagemen	ıt.	Cor	mpany: Ensolum LLC			Lab \	WO#	-	_		Num			1D	2D	3D	Std	Ì	NM	CO UT	TX	T
Project:		River SW				Add	dress: 3122 National Parks Hy	vv		E4	111	13	9	23	<b>E</b> Ø	·	15				Х	Ī	X		$\top$	
Project N	/lanager: As	hley Giov	engo			City	, State, Zip: Carlsbad NM, 88	220																		-
	3122 Nation			_		Pho	ne: 575-988-0055			[				Ana	alysis and Method							EPA Program				
City, Stat	e, Zip: Carls	bad NM,	88220			Em	ail: agiovengo@ensolum.co	m														SDV	VA	CWA	RO	CRA
Phone: 5	575-988-005	5				Mis	cellaneous:														lſ				$\top$	
Email: a	giovengo@e	nsolum.c	om			1					[2	5			'						[	Com	oliano	e Y	or	N
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Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID				ab nber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals						Remark	<b>S</b>	
10:47	11/12/2024	S	1		FS01 @ 1'				1							x										
10:17	11/12/2024	S	1		FS02 @ 1'					,						X										
13:21	11/12/2024	S	1			-	FS04 @ 4'		3							X										
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l · ·			authenticit	y of this samp	ole. I am aw	are that	t tampering with or intentionally mislabe	ing the sa	mple lo	cation	, date	or tim	e of co	llectio	n is co	nsider	d frau	d and	may b	e grou	nds for	legal a	ction.			
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					tainer						plasti	c, ag	- amt	er gl	ass, ۱	Ø - VO										
Note: Sam	ples are discard						arrangements are made. Hazardous										e clier	t exp	ense.	The r	eport f	or the	e anal	ysis of th	e abov	e



envirotech envirotech

Printed: 11/14/2024 9:17:21AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	11/14/24	08:00		Work Order ID:	E411139
Phone:	(575) 988-0055	Date Logged In:	11/13/24	14:25		Logged In By:	Caitlin Mars
Email:		Due Date:	11/20/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	ourier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	currer. <u>c</u>	<u>ourier</u>		
	all samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss			,		Comment	s/Resolution
	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes				
		temperature. 4	<u>c</u>				
	Container queous VOC samples present?		No				
	/OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
	a trip blank (TB) included for VOC analyses?	.0	NA				
	on-VOC samples collected in the correct containers appropriate volume/weight or number of sample contain		Yes				
Field La		ners conected?	Yes				
	field sample labels filled out with the minimum inf	armation					
	ample ID?	ormation.	Yes				
	Date/Time Collected?		Yes	l			
C	Collectors name?		No				
Sample l	<u>Preservation</u>						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved i	netals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes	s, does the COC specify which phase(s) is to be anal	yzed?	NA				
Subcont	ract Laboratory						
	amples required to get sent to a subcontract laborate	uru9	No				
	a subcontract laboratory specified by the client and it	-	NA	Subcontract Lab	. NA		
		1 30 WIIO:	1421	Subcontract Lab	, NA		
Client I	<u>nstruction</u>						

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E411149

Job Number: 23003-0002

Received: 11/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E411149

Date Received: 11/15/2024 6:30:37AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2024 6:30:37AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

_			-	
Γ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 17:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01- 0-1.5'	E411149-01A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 5:09:55PM

### SW01- 0-1.5' E411149-01

		E411149-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	mg/kg Analyst: SL			Batch: 2446145
Benzene	ND	0.0250	1	11/15/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/15/24	
Toluene	ND	0.0250	1	11/15/24	11/15/24	
o-Xylene	ND	0.0250	1	11/15/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	11/15/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2446145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	11/15/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2446149
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
Surrogate: n-Nonane		98.3 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2446159
Chloride	588	40.0	2	11/15/24	11/16/24	

		J	
San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	·F· ·····
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 5:09:55PM
	Volatile Orga	nics by EPA 8021B	Analyst: SL

	Volatile Organics by EPA 8021B								Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446145-BLK1)							Prepared: 1	1/15/24 Ana	lyzed: 11/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.3	70-130			
LCS (2446145-BS1)							Prepared: 1	1/15/24 Ana	lyzed: 11/15/24
Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.88	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.03		8.00		87.9	70-130			
LCS Dup (2446145-BSD1)							Prepared: 1	1/15/24 Ana	lyzed: 11/15/24
Benzene	4.53	0.0250	5.00		90.7	70-130	2.33	20	
Ethylbenzene	4.76	0.0250	5.00		95.2	70-130	1.68	20	
Toluene	4.75	0.0250	5.00		94.9	70-130	2.07	20	
o-Xylene	4.80	0.0250	5.00		96.0	70-130	1.76	20	
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130	1.74	20	
Total Xylenes	14.5	0.0250	15.0		96.6	70-130	1.74	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			



San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo11/18/20245:09:55PM

Nonhalogenated	<b>Organics</b>	by EPA	\ 8015D -	GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2446145-BLK1)						Prepared: 11	1/15/24	Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00	89.7	70-130			
LCS (2446145-BS2)						Prepared: 11	1/15/24	Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	37.9	20.0	50.0	75.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00	93.5	70-130			
LCS Dup (2446145-BSD2)						Prepared: 11	1/15/24	Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	38.3	20.0	50.0	76.7	70-130	1.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00	91.5	70-130			



San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo11/18/20245:09:55PM

Carisbad IVIVI, 66220		1 Toject Ivianage	. 110	micy Gloveng	50			•	710/2021 3.09.331
	Nonha	logenated Or	ganics by l	EPA 8015I	O - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446149-BLK1)							Prepared: 1	1/15/24 Ana	alyzed: 11/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			
LCS (2446149-BS1)							Prepared: 1	1/15/24 An	alyzed: 11/15/24
Diesel Range Organics (C10-C28)	266	25.0	250		107	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			
Matrix Spike (2446149-MS1)				Source:	E411147-1	12	Prepared: 1	1/15/24 An	alyzed: 11/15/24
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike Dup (2446149-MSD1)				Source:	E411147-1	12	Prepared: 1	1/15/24 An	alyzed: 11/15/24
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	0.277	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			

## **QC Summary Data**

San Mateo Black River Water Ma 3122 National Parks Hwy. Carlsbad NM, 88220	nagement Co.	Project Name: Project Number: Project Manager	: 2	lack River SW 3003-0002 shley Giovens	-			1	Reported: 1/18/2024 5:09:55PM
		Anions	by EPA	300.0/9056	4				Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2446159-BLK1)							Prepared: 1	1/15/24 An	alyzed: 11/16/24
Chloride	ND	20.0							
LCS (2446159-BS1)							Prepared: 1	1/15/24 An	alyzed: 11/16/24
Chloride	250	20.0	250		100	90-110			
LCS Dup (2446159-BSD1)							Prepared: 1	1/15/24 An	alyzed: 11/16/24
Chloride	250	20.0	250		99.9	90-110	0.116	20	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 17:09

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 1/3/2025 11:07:54 AM

Page _	_1	_ of _	1
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2			

	Clier	nt Inform	ation				Invoice Information					La	b Us	e On	ly				T/	<b>ΑΤ</b>		Sta	ite
Client: Sa	an Mateo					Cor	mpany: Ensolum LLC		li	ab.V	NO#	- •	_	Job I	Num	ber		1D	2D	3D	Std	NM CO U	ттх
	Black River	SWD # 00	01			Add	dress: 3122 National Parks H	νγ		-4	m	14	9	230	03.	000	2				х	x	
	lanager: Asl					City	, State, Zip: Carlsbad NM, 88	220					-										
	3122 Nation			_		Pho	one: 575-988-0055			ſ				Ana	lysis	and	Met	hod				EPA Prog	ram
City, Stat	e, Zip: Carls	bad NM,	88220			Em	nail: agiovengo@ensolum.co	m_		Γ												SDWA CWA	RCRA
Phone: 5	75-988-005	5				Misc	cellaneous:			l		1											
Email: ag	giovengo@e	nsolum.co	om							- 1	22	ا يو										Compliance	or N
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				Sam	ple Info	rmatio	on				ő	ĝ	, 802	826	e 30	ž	05 -1	Met					
Time Sampled	Date Sampled	Matrix	No. of Containers				Sample ID	Field	Lab Numb	er	DRO/ORO by 8015	GRO/DRO by 8015	втех <sub>by</sub> 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remar	ks
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Addition	al Instructio	ns: Plea	ase CC: c	burton@e	nsolun	n.com,	agiovengo@ensolum.com, c	hamilto	n@en	solu	ım.c	om		L									
I, (field samp		•	l authenticit	y of this samp	le. I am a		t tampering with or intentionally mislabe		mple loca	ation,	, date	or time	e of co	llection	n is co	nsidere	ed frau	ıd and	may b	e grou	nds for	legal action.	
	ed by: (Signatu		Date		Time	-	Received by: (Signature)	Date			Time			· · ·		Sampl	es requ	iring th	ermal p	preserva	tion m	ust be received on ice the	day they are
۔				14/24	9:40	O	Received by: (Signature)  Mighelle Gonzale  Received by: (Signature)	8/11-	14J	4	٥	94	0				ed or re		packed	l in ice a	it an av	g temp above 0 but less t	han 6°C on
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	rix: <b>S</b> - Soil, <b>Sd</b> - S								tainer 1							c, ag	- aml	oer gl	lass, 1				
							arrangements are made. Hazardous this COC. The liability of the laborat										e clier	nt exp	ense.	The r	eport	for the analysis of t	he above



envirotec

envirotech Inc.

Printed: 11/15/2024 8:51:11AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	11/15/24	06:30		Work Order ID:	E411149	
Phone:	(575) 988-0055	Date Logged In:	11/14/24	14:16		Logged In By:	Caitlin Mars	
Email:		Due Date:	11/21/24	17:00 (4 day TAT)				
Chain of	Custody (COC)							
1. Does t	he sample ID match the COC?		Yes					
	he number of samples per sampling site location m	atch the COC	Yes					
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Co	ourier			
4. Was th	e COC complete, i.e., signatures, dates/times, requ	ested analyses?	Yes					
	all samples received within holding time?	·	Yes					
	Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucs:	•		_		Commen	ts/Resolution	
	<u> Furn Around Time (TAT)</u>							
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes					
Sample (	<u>Cooler</u>							
7. Was a	sample cooler received?		Yes					
8. If yes,	was cooler received in good condition?		Yes					
9. Was th	e sample(s) received intact, i.e., not broken?		Yes					
10. Were	custody/security seals present?		No					
11. If yes	, were custody/security seals intact?		NA					
	ne sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling	are received w/i 15	Yes					
	visible ice, record the temperature. Actual sample	e temperature: 4°	<u>C</u>					
	Container Container							
	queous VOC samples present?		No					
	/OC samples collected in VOA Vials?		NA					
	head space less than 6-8 mm (pea sized or less)?		NA					
	a trip blank (TB) included for VOC analyses?		NA					
	on-VOC samples collected in the correct container		Yes					
	appropriate volume/weight or number of sample conta	iners collected?	Yes					
Field La								
	field sample labels filled out with the minimum in	formation:	3.7					
	ample ID? Date/Time Collected?		Yes	L				
	Collectors name?		Yes No					
	Preservation		140					
	the COC or field labels indicate the samples were	preserved?	No					
	ample(s) correctly preserved?		NA					
	filteration required and/or requested for dissolved	metals?	No					
	ase Sample Matrix							
	the sample have more than one phase, i.e., multiph	ase?	No					
	s, does the COC specify which phase(s) is to be ana		NA					
		1,200.	INA					
	ract Laboratory							
	amples required to get sent to a subcontract laborat a subcontract laboratory specified by the client and	-	No NA	Subcontract Lab:	: NA			
Client I	nstruction							
Chent I	usti uction							
l								

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

# San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E411153

Job Number: 23003-0002

Received: 11/15/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/20/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/20/24

Ashley Giovengo 3122 National Parks Hwy. Carlsbad, NM 88220

Project Name: Black River SWD1

Workorder: E411153

Date Received: 11/15/2024 6:30:37AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2024 6:30:37AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

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## Sample Summary

Γ	San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Donoutoda
l	3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/24 16:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05-2'	E411153-01A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS06-2'	E411153-02A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS07-2'	E411153-03A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS08-1'	E411153-04A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS09-1.5'	E411153-05A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS10-1'	E411153-06A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS11-1'	E411153-07A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS12-1.5'	E411153-08A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS13-0'	E411153-09A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS14-1'	E411153-10A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS15-1'	E411153-11A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS16-1'	E411153-12A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW02- 0-2'	E411153-13A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW03- 0-4'	E411153-14A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS05-2' E411153-01

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		99.1 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		99.1 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane		91.7 %	50-200	11/15/24	11/17/24	
						0445015
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2447015



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS06-2'

		E411153-02					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	ď		Batch: 2446151
Benzene	ND	0.0250	1		11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1		11/15/24	11/19/24	
Toluene	ND	0.0250	1		11/15/24	11/19/24	
o-Xylene	ND	0.0250	1		11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1		11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1		11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	ď		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	V		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1		11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1		11/15/24	11/17/24	
Surrogate: n-Nonane		87.3 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: J!	М		Batch: 2447015
Chloride	1050	200	10	0	11/18/24	11/19/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS07-2'

### E411153-03

		Reporting					
Analyte	Result	Limit	Dilut	ion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: Γ	Y		Batch: 2446151
Benzene	ND	0.0250	1		11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1		11/15/24	11/19/24	
Toluene	ND	0.0250	1		11/15/24	11/19/24	
o-Xylene	ND	0.0250	1		11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1		11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1		11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: Γ	Y		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: N	IV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1		11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1		11/15/24	11/17/24	
Surrogate: n-Nonane		88.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: J	M		Batch: 2447015
Chloride	1340	200	10		11/18/24	11/19/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS08-1'

### E411153-04

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2446151
Benzene	ND	0.0250	1		11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1		11/15/24	11/19/24	
Toluene	ND	0.0250	1		11/15/24	11/19/24	
o-Xylene	ND	0.0250	1		11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1		11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1		11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	·	98.3 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1		11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	Į.	11/15/24	11/17/24	
Surrogate: n-Nonane		96.3 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2447015
						·	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS09-1.5' E411153-05

		E411133-03					
	D. Iv	Reporting			D 1		N
Analyte	Result	Limit	Dilt	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2446151
Benzene	ND	0.0250		1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250		1	11/15/24	11/19/24	
Toluene	ND	0.0250		1	11/15/24	11/19/24	
o-Xylene	ND	0.0250		1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500		1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	•	1	11/15/24	11/17/24	_
Oil Range Organics (C28-C36)	ND	50.0		1	11/15/24	11/17/24	
Surrogate: n-Nonane		95.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2447015
Chloride	295	100		5	11/18/24	11/19/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS10-1' E411153-06

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2446151
Benzene	ND	0.0250		1	11/15/24	11/19/24	Buten: 2 : 10101
Ethylbenzene	ND	0.0250		1	11/15/24	11/19/24	
Toluene	ND	0.0250		1	11/15/24	11/19/24	
o-Xylene	ND	0.0250		1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500		1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		98.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		98.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0		1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/15/24	11/17/24	
Surrogate: n-Nonane		93.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2447015
Chloride	431	40.0		2	11/18/24	11/19/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS11-1' E411153-07

		Reporting					
Analyte	Result	Limit	Dilut	tion I	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2446151
Benzene	ND	0.0250	1	. 1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	. 1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	. 1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	. 1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	. 1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	. 1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	i	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	i	11/15/24	11/19/24	
Surrogate: Toluene-d8		104 %	70-130	i	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	i	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	i	11/15/24	11/19/24	
Surrogate: Toluene-d8		104 %	70-130	i	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV			Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	. 1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	. 1	11/15/24	11/17/24	
Surrogate: n-Nonane		93.2 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: JM			Batch: 2447015
Chloride	322	40.0	2	! 1	11/18/24	11/19/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS12-1.5' E411153-08

Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2446151
Benzene	ND	0.0250		1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250		1	11/15/24	11/19/24	
Toluene	ND	0.0250		1	11/15/24	11/19/24	
o-Xylene	ND	0.0250		1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500		1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		95.8 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		95.8 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0		1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/15/24	11/17/24	
Surrogate: n-Nonane	·	94.5 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2447015
Chloride	531	20.0		1	11/18/24	11/19/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS13-0' E411153-09

	E-11135-07					
Result	Reporting	Dilı	ution	Prepared	Analyzed	Notes
				•	7 mary Zea	Batch: 2446151
			Allalyst.		11/10/24	Batch: 2440131
			1			
			1			
			1			
ND	0.0250		1			
ND	0.0500		1	11/15/24	11/19/24	
ND	0.0250		1	11/15/24	11/19/24	
	97.2 %	70-130		11/15/24	11/19/24	
	98.6 %	70-130		11/15/24	11/19/24	
	102 %	70-130		11/15/24	11/19/24	
mg/kg	mg/kg		Analyst:	IY		Batch: 2446151
ND	20.0		1	11/15/24	11/19/24	
	97.2 %	70-130		11/15/24	11/19/24	
	98.6 %	70-130		11/15/24	11/19/24	
	102 %	70-130		11/15/24	11/19/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2446157
ND	25.0		1	11/15/24	11/17/24	
ND	50.0		1	11/15/24	11/17/24	
	96.0 %	50-200		11/15/24	11/17/24	
mg/kg	mg/kg		Analyst:	JM		Batch: 2447015
1990	40.0		2	11/18/24	11/19/24	
	mg/kg ND mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           97.2 %         98.6 %           102 %         mg/kg           ND         20.0           97.2 %         98.6 %           102 %         mg/kg           mg/kg         mg/kg           ND         25.0           ND         50.0           96.0 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilu           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           97.2 %         70-130           98.6 %         70-130           102 %         70-130           mg/kg         mg/kg           ND         20.0           97.2 %         70-130           98.6 %         70-130           102 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           96.0 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           97.2 %         70-130           98.6 %         70-130           102 %         70-130           mg/kg         mg/kg           Analyst:         ND           20.0         1           97.2 %         70-130           102 %         70-130           mg/kg         mg/kg           Analyst:         ND           25.0         1           ND         50.0           ND         50.200           mg/kg         mg/kg	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IV           ND         0.0250         1         11/15/24           ND         0.0250         1         11/15/24           ND         0.0250         1         11/15/24           ND         0.0250         1         11/15/24           ND         0.0500         1         11/15/24           ND         0.0250         1         11/15/24           ND         0.0250         1         11/15/24           97.2 %         70-130         11/15/24           98.6 %         70-130         11/15/24           102 %         70-130         11/15/24           97.2 %         70-130         11/15/24           98.6 %         70-130         11/15/24           98.6 %         70-130         11/15/24           102 %         70-130         11/15/24           102 %         70-130         11/15/24           MD         25.0         1         11/15/24           ND         25.0         1         11/15/24           ND         50.0         1         11/15/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         11/15/24         11/19/24           ND         0.0500         1         11/15/24         11/19/24           ND         0.0250         1         11/15/24         11/19/24           97.2 %         70-130         11/15/24         11/19/24           98.6 %         70-130         11/15/24         11/19/24           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         11/15/24         11/19/24           97.2 %         70-130         11/15/24         11/19/24           98.6 %         70-130         11/15/24         11/19/24           102 %         70-130         11/15/24         11/19/24           mg/kg         mg/kg         Analyst: NV           ND         50.0         1         11/15/



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS14-1' E411153-10

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane		91.7 %	50-200	11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: JM		Batch: 2447015
Chloride	1780	200	10	11/18/24	11/19/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

## FS15-1'

		E411153-11				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	l Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane		88.7 %	50-200	11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2447015
Chloride	4770	200	10	11/18/24	11/19/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### FS16-1' E411153-12

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
		mg/kg		Analyst:		- I mary zea	Batch: 2446151
Volatile Organic Compounds by EPA 8260B  Benzene	mg/kg ND	0.0250		1	11/15/24	11/19/24	Buten: 2 : 10101
Ethylbenzene	ND	0.0250		1	11/15/24	11/19/24	
Toluene	ND	0.0250		1	11/15/24	11/19/24	
o-Xylene	ND	0.0250		1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500		1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0		1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/15/24	11/17/24	
Surrogate: n-Nonane		89.2 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2447015
Chloride	2510	200		10	11/18/24	11/19/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### SW02- 0-2' E411153-13

		2.111100 10				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
		mg/kg		nalyst: IY	1 mary 200	Batch: 2446151
Volatile Organic Compounds by EPA 8260B	mg/kg ND			-	11/19/24	Batch: 2440131
		0.0250	1	11/15/24		
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		97.3 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		97.3 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		102 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ai	nalyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane		96.5 %	50-200	11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: JM		Batch: 2447015
Chloride	430	200	10	11/18/24	11/19/24	

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/2024 4:02:32PM

### SW03- 0-4'

		E411153-14					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2446151
Benzene	ND	0.0250		1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250		1	11/15/24	11/19/24	
Toluene	ND	0.0250		1	11/15/24	11/19/24	
o-Xylene	ND	0.0250		1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500		1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		96.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		110 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		96.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8		110 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0		1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	11/15/24	11/17/24	
Surrogate: n-Nonane		91.9 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A	mg/kg mg/kg			Analyst:	JM		Batch: 2447015
Chloride	1110	20.0		1	11/18/24	11/19/24	



## **QC Summary Data**

San Mateo Black River Water Management Co.

Project Name:
Black River SWD1
Reported:

3122 National Parks Hwy.
Project Number:
23003-0002
Carlsbad NM, 88220
Project Manager:
Ashley Giovengo

Carlsbad NM, 88220		3			o,			11/	20/2024 4:02:32PM			
Analyte   Result   Limit   Low   Result   Limit   Low   Result   Result												
Analyte	Result				Rec		RPD					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2446151-BLK1)							Prepared: 1	1/15/24 Anal	yzed: 11/19/24			
Benzene		0.0250										
Ethylbenzene		0.0250										
		0.0250										
•												
-												
<u> </u>	ND	0.0250										
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130						
Surrogate: Toluene-d8	0.508		0.500		102	70-130						
LCS (2446151-BS1)							Prepared: 1	1/15/24 Anal	yzed: 11/19/24			
Benzene	2.42	0.0250	2.50		96.8	70-130						
Ethylbenzene	2.60	0.0250	2.50		104	70-130						
Toluene	2.51	0.0250	2.50		100	70-130						
o-Xylene	2.93	0.0250	2.50		117	70-130						
p,m-Xylene	5.90	0.0500	5.00		118	70-130						
Total Xylenes	8.83	0.0250	7.50		118	70-130						
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130						
			0.500		103	70-130						
LCS Dup (2446151-BSD1)							Prepared: 1	1/15/24 Anal	yzed: 11/19/24			
Benzene	2.51	0.0250	2.50		100	70-130	3.49	23				
Ethylbenzene	2.76	0.0250	2.50		110	70-130	6.05	27				
Toluene	2.68	0.0250	2.50		107	70-130	6.45	24				
o-Xylene	2.83	0.0250	2.50		113	70-130	3.66	27				
p,m-Xylene	5.65	0.0500	5.00		113	70-130	4.39	27				
Total Xylenes	8.47	0.0250	7.50		113	70-130	4.15	27				
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130						

0.500

70-130

0.520



Surrogate: Toluene-d8

## **QC Summary Data**

San Mateo Black River Water Management Co.Project Name:Black River SWD1Reported:3122 National Parks Hwy.Project Number:23003-0002Carlsbad NM, 88220Project Manager:Ashley Giovengo11/20/2024 4:02:32PM

Nonhalogenated	<b>Organics</b>	by	<b>EPA</b>	8015D -	GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2446151-BLK1)						Prepared: 1	1/15/24 An	alyzed: 11/19/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.486		0.500	97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500	98.2	70-130			
Surrogate: Toluene-d8	0.508		0.500	102	70-130			
LCS (2446151-BS2)						Prepared: 1	1/15/24 An	alyzed: 11/19/24
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	102	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500	94.7	70-130			
Surrogate: Toluene-d8	0.522		0.500	104	70-130			
LCS Dup (2446151-BSD2)						Prepared: 1	1/15/24 An	alyzed: 11/19/24
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	107	70-130	4.81	20	
Surrogate: Bromofluorobenzene	0.501		0.500	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500	92.9	70-130			
Surrogate: Toluene-d8	0.530		0.500	106	70-130			



## **QC Summary Data**

San Mateo Black River Water Management Co.

Project Name:
Black River SWD1

Reported:

3122 National Parks Hwy.
Project Number:
23003-0002

Carlsbad NM, 88220
Project Manager:
Ashley Giovengo

Carisbad NM, 88220		Project Manager	r: As	niey Gioveng	30			1	1/20/2024 4:02:32Pl				
Result   Hint   Level   Result   Rec   Limits   RPD   Limit   Hint   H													
Analyte	Result		•		Rec		RPD						
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2446157-BLK1)							Prepared: 1	1/15/24 An	alyzed: 11/17/24				
Diesel Range Organics (C10-C28)	ND	25.0											
il Range Organics (C28-C36)	ND	50.0											
urrogate: n-Nonane	48.4		50.0		96.7	50-200							
LCS (2446157-BS1)							Prepared: 1	1/15/24 An	alyzed: 11/17/24				
Diesel Range Organics (C10-C28)	238	25.0	250		95.2	38-132							
urrogate: n-Nonane	49.3		50.0		98.7	50-200							
Matrix Spike (2446157-MS1)				Source:	E411153-1	10	Prepared: 1	1/15/24 An	alyzed: 11/17/24				
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132							
urrogate: n-Nonane	53.0		50.0		106	50-200							
Matrix Spike Dup (2446157-MSD1)				Source:	E411153-1	10	Prepared: 1	1/15/24 An	alyzed: 11/17/24				
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132	3.05	20					
urrogate: n-Nonane	48.7		50.0		97.4	50-200							

Chloride

## **QC Summary Data**

San Mateo Black River Water Ma 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Project Number: Project Manager	: 2:	lack River SW 3003-0002 shley Gioveng				<b>Reported:</b> 1/20/2024 4:02:32PM		
		Anions	by EPA	300.0/9056	1				Analyst: JM
Analyte		Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447015-BLK1)							Prepared: 1	1/18/24 An	nalyzed: 11/19/24
Chloride	ND	20.0							
LCS (2447015-BS1)							Prepared: 1	1/18/24 An	nalyzed: 11/19/24
Chloride	256	20.0	250		102	90-110			
LCS Dun (2447015-BSD1)						Prepared: 1	1/18/24 An	nalvzed: 11/19/24	

250

20.0

102

90-110

0.115

256

### QC Summary Report Comment:

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



## **Definitions and Notes**

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/24 16:02

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 1/3/2025 11:07:54 AM

	Clie	nt Inform	nation			Invoice Information					La	b Us	e On	ly				T	AT.			State	, ]
Client: Sa	n Mateo				Con	npany: Ensolum LLC		ما	ab V	NO#			Job 1	Num	ber		1D	2D	3D	Std	NM	со ит	TX
	Black River	SWD # 0	01			iress: 3122 National Parks Hw	/		4	<b>///</b> //	5	3	23	203	000	21				Х	X		
	lanager: Asl				City	, State, Zip: Carlsbad NM, 882	20																
Address:	3122 Natio	nal Parks	Hwy		Pho	ne: 575-988-0055			Γ				Ana	lysis	and	Meti	hod				EP	A Progra	m
City, State	e, Zip: Carls	bad NM,	88220		Em	Email: agiovengo@ensolum.com															SDWA	CWA	RCRA
Phone: 5	75-988-005	5			Misc	Miscellaneous:					I					- 1			1 1				
Email: ag	iovengo@e	nsolum.c	om								2				l						Compliand	e Y	or N
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				Samp	ole Information	on		,	_	ğ	ğ	86.	, 826	e 30	ž	8	Me		1 1				
Time Sampled Date Sampled Matrix No. of Containers						Sample ID	Field	Lab Numb	er	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
0942	11/13/24	11/13/24 S 1 F505-2'						1		-					X								
0957			1		FS06-	2'		2							1								
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1121					F513 -			9															
1452					FS14-			10	)												-		
	al Instructio	ns: Plea	ase CC:	cburton@e		agiovengo@ensolum.com, cha	milto			um.c	om			-				<b>.</b>					-
			dauthentic	ity of this sampl	e. I am aware that	tampering with or intentionally mislabelin	g the sa	mple loca	tion,	, date	or time	e of co	llectio	n is co	nsidere	d frau	d and	may b	e grou	nds for	legal action.		-
Sampled by:	Chad Ham ed by: (Signatur		Da	te I	Time	Received by: (Signature)	Date			Time					Sample	es requi	iring th	ermal	preserva	tion m	ust be received	on ice the da	y they are
			10	1/14/24	9:40	Mighalle Gonzale	<u>n-</u>	-1424	4		94	0			sample		ceived		l in ice a	t an av	g temp above (		
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lade H. 11.14.24				te  .     . 24	2345	Received by: Biggrature)	Date //	15.2	124 6:30 T1			<u>1 T2 T3                                 </u>											
Relinquished by: (Signature) Date Tim					Time					Time						Tem			_				
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envirotech

Released to Imaging: 1/3/2025 11:07:54 AM

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	3122 Natio		•			Phone:							_	Ana	lysis	and	Met	hod				EPA P	rogram	
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er glass, v-VOA
nt expense. The report for the analysis of the above

Printed: 11/15/2024 8:54:52AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	San Mateo Black River Water Management Co.	Date Received:	11/15/24	06:30		Work Order ID:	E411153
Phone:	(575) 988-0055	Date Logged In:	11/14/24	14:32		Logged In By:	Caitlin Mars
Email:		Due Date:	11/21/24	17:00 (4 day TAT)			
Chain at	Courted (COC)						
	Custody (COC)		37				
	he sample ID match the COC? he number of samples per sampling site location ma	tab the COC	Yes				
	amples dropped off by client or carrier?	ich the COC	Yes				
	• • • •	-4-4	Yes Yes	Carrier: <u>C</u>	<u>Courier</u>		
	te COC complete, i.e., signatures, dates/times, reque	sted analyses?					
5. were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes	_		<u>Comment</u>	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
12. Was th	ne sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar		Yes				
13. If no	minutes of sampling visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample (	<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are \	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	a trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct containers	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field La	<u>bel</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	Oate/Time Collected?		Yes				
	Collectors name?		No				
	Preservation the COC or field labels indicate the samples were p	racamiad?	No				
	*	reserveu?	No				
	ample(s) correctly preserved? filteration required and/or requested for dissolved n	actala?	NA Na				
	1	netals:	No				
	ase Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	s, does the COC specify which phase(s) is to be analy	yzed'?	NA				
Subcont	ract Laboratory						
28. Are s	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	a subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab	: NA		
Client I	<u>nstruction</u>						

Date



# **APPENDIX E**

**Email Correspondence** 

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 369850

#### **QUESTIONS**

ı	Operator:	OGRID:
ı	San Mateo Black River Water Management Compan	371287
ı	5400 LBJ Freeway	Action Number:
ı	Dallas, TX 75240	369850
ı		Action Type:
ı		[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

Location of Release Source					
Please answer all the questions in this group.					
Site Name	Black River SWD				
Date Release Discovered	08/02/2024				
Surface Owner	Private				

ncident Details				
Please answer all the questions in this group.				
Incident Type	Produced Water Release			
Did this release result in a fire or is the result of a fire	No			
Did this release result in any injuries	No			
Has this release reached or does it have a reasonable probability of reaching a watercourse	No			
Has this release endangered or does it have a reasonable probability of endangering public health	No			
Has this release substantially damaged or will it substantially damage property or the environment	No			
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No			

ature and Volume of Release aterial(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 94 BBL   Recovered: 94 BBL   Lost: 0 BBL.
s the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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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**

QUESTIONS, Page 2

Action 369850

QUESTIONS	(continued)

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	369850
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

Nature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.			
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes			
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.				

Initial Response	Initial Response				
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.					
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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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** 

ACKNOWLEDGMENTS

Action 369850

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	369850
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### **ACKNOWLEDGMENTS**

V	l acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<b>V</b>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
V	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<u> </u>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
V	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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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 369850

### CONDITIONS

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	369850
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### CONDITIONS

Created By		Condition Date
j_touchet	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/2/2024

Area (sq. ft.)  Standing fluids  inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		
Saturated Soil (inches)  O.5  Area (sq. ft.)  Standing fluids  inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  O.4  Barrel estimate (standing fluids/ recovered+in soil)		
Area (sq. ft.)  Standing fluids inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  Soil type pad caliche Spill type produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	Impacted Soil	
Area (sq. ft.)  Standing fluids  inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	Saturated Soil (inches)	
Standing fluids inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  Soil type pad caliche Spill type produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		0.5
Standing fluids inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  Soil type  pad caliche Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	Area (sq. ft.)	
inches of standing fluid  bbl estimate of standing fluids  barrels recovered (if known)  93.5  Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		240
bbl estimate of standing fluids  barrels recovered (if known)  93.5  Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	Standing fluids	
bbl estimate of standing fluids  barrels recovered (if known)  93.5  Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	inches of standing fluid	
Soil type  pad caliche Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		0
Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	bbl estimate of standing fluids	
Soil type  pad caliche  Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		
Soil type pad caliche Spill type produced water  Barrel estimate in soil  0.4 Barrel estimate (standing fluids/ recovered+in soil)	barrels recovered (if known)	
pad caliche Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		93.5
pad caliche Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		
Spill type  produced water  Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)		
Barrel estimate in soil  0.4  Barrel estimate (standing fluids/ recovered+in soil)	pad caliche	
Barrel estimate in soil 0.4 Barrel estimate (standing fluids/ recovered+in soil)	Spill type	
0.4 Barrel estimate (standing fluids/ recovered+in soil)	produced water	
0.4 Barrel estimate (standing fluids/ recovered+in soil)		
Barrel estimate (standing fluids/ recovered+in soil)	Barrel estimate in soil	
		0.4
93.9	Barrel estimate (standing fluids/ recovered+in soil)	
		93.9



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 370000

#### **QUESTIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	370000
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 94 BBL   Recovered: 94 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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**District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 370000

QUEST	IONS (continued)
Operator: San Mateo Black River Water Management Compan	OGRID: 371287
5400 LBJ Freeway Dallas, TX 75240	Action Number: 370000
24,30, 77.62.6	Action Type:  [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	,
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a second content of the con	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 08/02/2024

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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** 

QUESTIONS, Page 3

Action 370000

#### **QUESTIONS** (continued)

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	370000
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.	
What method was used to determine the depth to ground water	Not answered.	
Did this release impact groundwater or surface water	Not answered.	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Not answered.	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.	
An occupied permanent residence, school, hospital, institution, or church	Not answered.	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.	
Any other fresh water well or spring	Not answered.	
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.	
A wetland	Not answered.	
A subsurface mine	Not answered.	
An (non-karst) unstable area	Not answered.	
Categorize the risk of this well / site being in a karst geology	Not answered.	
A 100-year floodplain	Not answered.	
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.	

Down disting Diag		
Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	No	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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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 370000

### **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	370000
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### CONDITIONS

Created By	Condition Cor	ondition ate
scott.rod@	s None 8/8	3/5/2024

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 397947

#### **QUESTIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397947
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,120
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590

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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 397947

### **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397947
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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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** 

QUESTIONS

Action 397949

#### **QUESTIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397949
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	3,120	
What is the estimated number of samples that will be gathered	30	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072	
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590	

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 397949

## **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397949
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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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** 

QUESTIONS

Action 397954

## **QUESTIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397954
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	3,120	
What is the estimated number of samples that will be gathered	30	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072	
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590	

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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 397954

## **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397954
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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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** 

QUESTIONS

Action 397962

### **QUESTIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397962
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	3,120	
What is the estimated number of samples that will be gathered	30	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/07/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072	
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590	

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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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 397962

## **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397962
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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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** 

QUESTIONS

Action 397969

### **QUESTIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397969
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	3,120	
What is the estimated number of samples that will be gathered	30	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072	
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590	

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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 397969

## **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	397969
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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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**

QUESTIONS

Action 402701

### **QUESTIONS**

ı	Operator:	OGRID:
ı	San Mateo Black River Water Management Compan	371287
ı	5400 LBJ Freeway	Action Number:
ı	Dallas, TX 75240	402701
ı		Action Type:
ı		[NOTIFY] Notification Of Liner Inspection (C-141L)

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	BLACK RIVER SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	72,019
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/15/2024
Time liner inspection will commence	07:00 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.26578,-104.12499

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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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 402701

## **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	402701
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

L	Created By	Condition	Condition Date
	j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	11/12/2024

From: Rodgers, Scott, EMNRD
To: Ashley Giovengo

Cc: jason.touchet@matadorresources.com; Cole Burton; Chad Hamilton

Subject: RE: [EXTERNAL] 48-Hour Confirmation Sampling Variance Request - Black River SWD 001 - nAPP2421542116

**Date:** Monday, December 2, 2024 3:53:58 PM

Attachments: image006.pnq

image007.png image008.png

# [\*\*EXTERNAL EMAIL\*\*]

Good Afternoon,

Your variance request for the two-business day sampling notification is approved.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, notifications for sampling or drilling event(s), and request for time extension(s) or variance(s).

Scott Rodgers ● Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland NE, Suite B | Albuquerque, NM 87113 505.469.1830 | scott.rodgers@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, December 2, 2024 2:13 PM

**To:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] 48-Hour Confirmation Sampling Variance Request - Black River SWD 001 -

nAPP2421542116

**From:** Ashley Giovengo <a href="mailto:agiovengo@ensolum.com">agiovengo@ensolum.com</a>>

Sent: Monday, December 2, 2024 1:57 PM

**To:** Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov >; Jason Touchet < jason.touchet@matadorresources.com >

Cc: Cole Burton < charton@ensolum.com >; Chad Hamilton < charilton@ensolum.com >

**Subject:** [EXTERNAL] 48-Hour Confirmation Sampling Variance Request - Black River SWD 001 - nAPP2421542116

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

San Mateo Black River Water Management Company (San Mateo) would like to request a variance on the 48-Hour confirmation sampling notice for confirmation soil samples collected at the Black River SWD #001 (Site) (Incident Number nAPP2421542116). San Mateo submitted 48-hour confirmation sampling notices for the week of November 04, 2024, through November 07, 2024, however remediation of the subject matter release was not completed until November 13, 2024. Unfortunately, San Mateo's environmental representative experienced a death in the family and was unable to submit additional notices until his return to work on 11/15/2024. Ensolum personnel noticed that missing confirmation sampling notices today, December 02, 2024. San Mateo respectfully requests permission to use confirmation floor and confirmation sidewall soil samples collected on November 12, 2024, and November 13, 2024, in the final report submitted to NMOCD. Please feel free to reach out with any additional questions.

Thanks,



"Your authenticity is your superpower." - Unknown

### **State of New Mexico Energy, Minerals and Natural Resources** Phone: (505) 629-6116 **Oil Conservation Division** Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

QUESTIONS

Action 407986

## **QUESTIONS**

**Santa Fe, NM 87505** 

ı	Operator:	OGRID:
ı	San Mateo Black River Water Management Compan	371287
ı	5400 LBJ Freeway	Action Number:
ı	Dallas, TX 75240	407986
ı		Action Type:
ı		[C-141] Deferral Request C-141 (C-141-v-Deferral)

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BLACK RIVER SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 94 BBL   Recovered: 94 BBL   Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

Phone: (505) 629-6116 Online Phone Directory

https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 407986

QUESTI	ONS (continued)
Operator: San Mateo Black River Water Management Compan	OGRID: 371287
5400 LBJ Freeway Dallas, TX 75240	Action Number: 407986
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/03/2024

Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 407986

**QUESTIONS** (continued)

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	407986
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

# QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Zero feet, overlying, or within area	
Categorize the risk of this well / site being in a karst geology	High	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in mil	lligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	41500
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	249
GRO+DRO	(EPA SW-846 Method 8015M)	156
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date wi	Il the remediation commence	11/05/2024
On what date will (or did) the	ne final sampling or liner inspection occur	11/15/2024
On what date will (or was)	the remediation complete(d)	11/13/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	1323
What is the estimated volui	me (in cubic yards) that will be reclaimed	82
What is the estimated surfa	ace area (in square feet) that will be remediated	1821
What is the estimated volui	me (in cubic yards) that will be remediated	58
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Phone: (505) 629-6116

**Energy, Minerals and Natural Resources Oil Conservation Division** Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

QUESTIONS, Page 4

Action 407986

**QUESTIONS** (continued)

**Santa Fe, NM 87505** 

**State of New Mexico** 

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	407986
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
· · · · · · · · · · · · · · · · · · ·		
(Select all answers below that apply.)		
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Yes	
What is the name of the NMED facility	Lea Land	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 12/03/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

San Mateo Black River Water Management Compan

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

Operator:

Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 407986

**QUESTIONS** (continued)

OGRID:

371287

Dallas, TX 75240	407986
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	f the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Deferral areas are directly beneath active pipeline risers and supports.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1941
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	219
	ately under or around production equipment such as production tanks, wellheads and pipelines where may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-43807 BLACK RIVER SWD #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed el which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/03/2024

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 407986

**QUESTIONS** (continued)

Operator		OGRID:
	San Mateo Black River Water Management Compan	371287
	5400 LBJ Freeway	Action Number:
	Dallas, TX 75240	407986
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

Sampling Event Information	
Last sampling notification (C-141N) recorded	397969
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	3120

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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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 407986

### **CONDITIONS**

Operator:	OGRID:
San Mateo Black River Water Management Compan	371287
5400 LBJ Freeway	Action Number:
Dallas, TX 75240	407986
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

Created By		Condition Date
scott.rodgers	Deferral approved. Deferral of FS03, FS05-07, FS13-16 and SW03 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	1/3/2025