Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

December 9, 2025

Submitted online via OCD E-Permitting:
https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Ms. Ashley Maxwell
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: ***Chaco Plant 3 Phase Separator 2024 Groundwater Monitoring Report*** (Ensolum, March 26, 2025, Revised September 10, 2025)
ENTERPRISE FIELD SERVICES L.L.C
P.O Box 4324, Houston TX 77210-4324
Chaco Plant, San Juan County, NM
Site Coordinates: N 36.481637, W 108.120470
Incident Number: NRM2021235744

Dear Ms. Maxwell:

In response to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division's (OCD) September 9, 2025 rejection of the 2024 Groundwater Monitoring Report, Enterprise Products Operating LLC (Enterprise), on behalf of ENTERPRISE FIELD SERVICES L.L.C, is submitting to the NM EMNRD OCD an electronic copy of the above referenced report prepared by Ensolum, LLC (Ensolum) dated March 26, 2025, revised September 10, 2025. The report is associated with the Enterprise Chaco Plant 3 Phase Separator release of produced water that was identified on July 22, 2020 from a faulty valve on a three-phase separator located on the Chaco Plant in San Juan County, New Mexico.

Should you have any questions, comments, or concerns, or need additional information regarding this Site, please contact Valerie Phipps via email at vphipps@eprod.com, or via phone at 713-863-5060.

Sincerely,

Valerie Phipps
Engineer, Staff Environmental

Tucker Jacobson
Senior Manager, Environmental

ec: NM OCD – Aztec District – Nelson Velez <nelson.velez@emnrd.nm.gov>
Ensolum – Mr. Marc E. Gentry <MGentry@ensolum.com>
Ensolum – Mr. Dan Moir <dmoir@ensolum.com>

ENSOLUM

2024 GROUNDWATER MONITORING REPORT

Property:

Chaco Plant 3 Phase Separator (7/22/20)
Unit Letter N, S16 T26N R12W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NRM2021235744

March 26, 2025
Revised September 10, 2025

Ensolum Project No. 05A1226115

Prepared for:

ENTERPRISE FIELD SERVICES L.L.C.
P.O. Box 4324
Houston, Texas 77210-4324
Attn: Ms. Valerie Phipps

Prepared by:

Landon Daniell
Project Geologist

Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

This report describes the 2024 groundwater monitoring activities conducted at the Chaco Plant 3 Phase Separator (7/22/20) site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	ENTERPRISE FIELD SERVICES L.L.C. (Enterprise)
Site Name:	Chaco Plant 3 Phase Separator (7/22/20) (Site)
NM EMNRD OCD Incident ID No.	NRM2021235744
Location:	36.481637° North, 108.120470° West Unit Letter N, Section 16, Township 26 North, Range 12 West San Juan County, New Mexico
Property:	Enterprise
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 22, 2020, Enterprise personnel identified a release of produced water from a faulty valve on a three-phase separator at the Site. A flow path extended northwest from the release point. Excavation activities were performed at the Site during July 2020. Following the completion of excavation activities and off-site disposal of the removed hydrocarbon-affected soils, confirmation soil samples were collected from the excavation and delineation soil samples were collected from soil borings by Ensolum, LLC (Ensolum). Analytical results indicated constituent of concern (COC) concentrations exceeding the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria for soil. Soil exhibiting COC exceedances was identified adjacent to the structural foundations. Additionally, potential historical impacts were identified in hand auger borings located over 10 feet outside the flow path. Following discussions with the NM EMNRD OCD, the excavation was backfilled with non-waste containing soil.

During March 2021, a temporary monitoring well was installed at the Site inside the former excavation footprint. The groundwater analytical results indicated COC concentrations above the Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) (*Interim Site Characterization and Remediation Report*, Ensolum, November 18, 2021).

During May 2021, four soil borings were advanced on-Site by Ensolum. Subsequent to advancement, the soil borings were completed as 2-inch diameter groundwater monitoring wells (EW-2 through EW-4) and the temporary well was completed as a permanent monitoring well (EW-1). Laboratory analytical results for soil samples collected from the borings did not indicate concentrations of COCs above the NM EMNRD OCD closure criteria; however, COCs were confirmed in groundwater exceeding the WQCC GQSs (*Interim Site Characterization and Remediation Report*, Ensolum, November 18, 2021).

Ensolum implemented groundwater monitoring during February 2022 and September 2022. Laboratory analytical results for the groundwater samples collected from monitoring well EW-1 indicated benzene concentrations above the WQCC GQS. The groundwater samples collected from the remaining monitoring wells during the two 2022 sampling events did not exhibit COC concentrations above the applicable WQCC GQS (*2022 Groundwater Monitoring Report*, Ensolum, February 13, 2024).

Ensolum conducted groundwater sampling events during February 2023 and August 2023. Benzene was reported at concentrations exceeding the NM WQCC GQS in groundwater collected

from monitoring well EW-1 during the August 2023 sampling event (the monitoring well was not sampled in February 2023 due to ice cover and inability to sample the well). In addition, chloroform was reported at concentrations exceeding the NM WQCC GQS in groundwater collected from monitoring well EW-4 during the February 2023 and August 2023 sampling events; no indications of source contamination was identified and could have been a laboratory and/or sample jar issue. The groundwater samples collected from the remaining monitoring wells during the two 2023 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs. Aside from the increased chloroform and trace constituent concentrations at monitoring well EW-4, the results from 2023 generally demonstrated relatively stable COC concentrations.

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references 19.15.29 New Mexico Administrative Code (NMAC), which establishes investigation and abatement action requirements for sites that are subject to reporting and/or corrective action. Additionally, the NM EMNRD OCD utilizes the NM WQCC GQS (20.6.2 NMAC *Ground and Surface Water Protection*) to evaluate groundwater conditions.

The Site location is depicted on **Figure 1** of **Appendix A,** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells, the extent of the former excavation, excavation sample locations, and previous soil boring locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 Project Objective

The objective of the groundwater monitoring events was to further evaluate the concentrations of COCs in groundwater at the Site.

2.0 GROUNDWATER MONITORING

Ensolum conducted groundwater sampling events during February 2024 and December 2024. The groundwater sampling program consisted of the collection of one groundwater sample from each of the monitoring wells at the Site on a semi-annual basis. The NM EMNRD OCD was notified of the sampling events although no representative was present during the sampling activities. Regulatory correspondence is provided in **Appendix B**.

Ensolum's groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquid (NAPL).

- Each designated monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, the groundwater sample was collected.

- Low-flow or low-stress sampling refers to sampling methods intended to minimize stress imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.

- During low-flow sampling, the groundwater samples are collected from each monitoring well

once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three consecutive readings.

- Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride ($HgCl_2$) or hydrochloric acid (HCl)), labeled, and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico and Eurofins Environment Testing (Eurofins) of Albuquerque, New Mexico) under proper chain-of-custody procedures.

2.1 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the February 2024 sampling event were analyzed for volatile organic compounds (VOCs) utilizing United States Environmental Protection Agency (EPA) SW-846 Method 8260. Groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing EPA SW-846 Method 8021B in December 2024.

A summary of the analytes, sample matrix, sample frequency and EPA-approved analytical methods are presented in the following table.

Sample Event	Analyte	Sample Type	No. of Samples	Method
February 20, 2024	VOCs	Groundwater	4	SW-846 8260
December 30, 2024	BTEX	Groundwater	4	SW-846 8021B

The laboratory analytical results are summarized in **Table 1** in **Appendix C**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix D**.

2.2 Groundwater Flow Direction

The groundwater flow direction at the Site generally trends toward the northwest. The calculated gradient during the 2024 monitoring events averages 0.0028 feet per foot (ft/ft) across the Site. Groundwater elevation data collected during the 2024 gauging events are presented in **Table 2** (**Appendix C**). Groundwater gradient maps for the 2024 gauging events are included as **Figure 4A** and **Figure 4B** (**Appendix A**).

2.3 Groundwater Data Evaluation

Ensolum compared the laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected from monitoring wells during the 2024 sampling events to the NM WQCC Human Health Standards (HHSs). The results of the groundwater sample analyses are summarized in **Table 1** of **Appendix C**. The WQCC Standard Exceedance maps are provided as **Figure 5A** and **Figure 5B** of **Appendix A**.

VOCs / BTEX

The following discussion only includes the VOC (including BTEXO constituents with an established WQCC GQS. The remaining VOC constituents with reported concentrations above the laboratory PQLs/RLs are summarized in **Table 1** (**Appendix C**).

February 2024

- The February 2024 analytical result for monitoring well EW-1 indicated a benzene concentration of 17 µg/L, which exceeds the WQCC HHS of 5 µg/L. The analytical results for the other monitoring well samples do not indicate benzene concentrations exceeded the laboratory PQLs/RLs, which are below the WQCC HHS of 5 µg/L.

- The February 2024 analytical results for the monitoring well samples do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 1,000 µg/L.

- The February 2024 analytical result for monitoring well EW-1 indicates an ethylbenzene concentration of 26 µg/L, which is below the WQCC HHS of 700 µg/L. The analytical results for the other monitoring well samples do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 700 µg/L.

- The February 2024 analytical result for monitoring well EW-1 indicated a total xylenes concentration of 1.8 µg/L, which is below the WQCC HHS of 620 µg/L. The analytical results for the other monitoring well samples do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 620 µg/L.

- The February 2024 analytical results for the monitoring well samples do not indicate naphthalene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 30 µg/L.

- The February 2024 analytical result for monitoring well EW-4 indicates a chloroform concentration of 22 µg/L, which is below the WQCC HHS of 100 µg/L. The analytical results for the other monitoring well samples do not indicate chloroform concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 100 µg/L.

- The February 2024 analytical results for the monitoring well samples do not indicate carbon tetrachloride concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 5 µg/L.

- The February 2024 analytical results for all monitoring well samples did not indicate tetrachloroethene (PCE) concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 5 µg/L.

- The February 2024 analytical results for the monitoring well samples do not indicate trichloroethene (TCE) concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 5 µg/L.

- No data qualifier flags are associated with the February 2024 analytical results.

December 2024

- The December 2024 analytical result for sample EW-1 indicated a benzene concentration of 54 µg/L, which exceeds the WQCC HHS of 5 µg/L. The analytical results for the other monitoring well samples do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 5 µg/L.

- The December 2024 analytical results for the monitoring well samples do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 1,000 µg/L.

- The December 2024 analytical result for sample EW-1 indicated an ethylbenzene concentration of 21 µg/L, which is below the WQCC HHS of 700 µg/L. The analytical results for the remaining monitoring well samples do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 700 µg/L.

- The December 2024 analytical result for monitoring well EW-1 indicated a xylene concentration of 2.4 µg/L, which is below the WQCC HHS of 620 µg/L. The analytical results for the other monitoring well samples do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 620 µg/L.

- No data qualifier flags are associated with the December 2024 analytical results.

3.0 FINDINGS

Based on the evaluation of the analytical results from the groundwater monitoring activities, Ensolum presents the following findings:

- The groundwater flow direction at the Site is generally towards the northwest, with a gradient of 0.0028 ft/ft across the Site.

- Benzene was reported at concentrations exceeding the NM WQCC GQS of 5 µg/L in groundwater samples collected from monitoring well EW-1 during the February 2024 and December 2024 sampling events. In addition, chloroform was reported at concentrations below the NM WQCC GQS of 100 µg/L in groundwater samples collected from monitoring wells during the February 2024 sampling event, indicating either a possible laboratory error or sample jar issue. The groundwater samples collected from the remaining monitoring wells during the two 2024 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs.

- Aside from decreased chloroform concentrations at monitoring well EW-4, which appear to have increased during 2023, the results from 2024 generally continue to demonstrate relatively stable COC concentrations.

4.0 RECOMMENDATIONS

Based on the results of the groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring data to the NM EMNRD OCD.
- Continue to analyze groundwater for only BTEX following EPA Method 8021B.
- Continue semi-annual groundwater monitoring at the Site to monitor COCs in groundwater to evaluate the natural attenuation potential.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

5.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

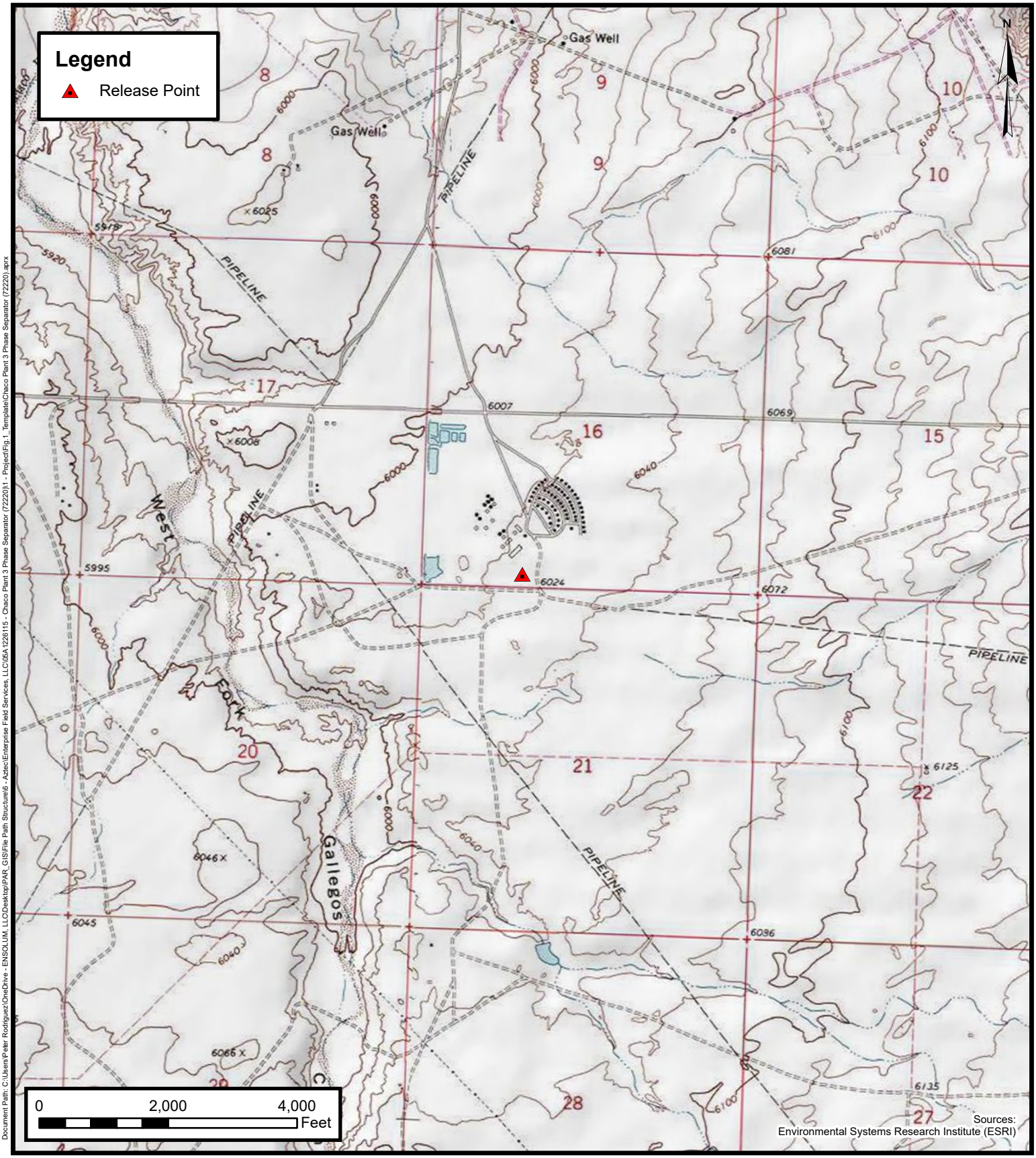
5.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



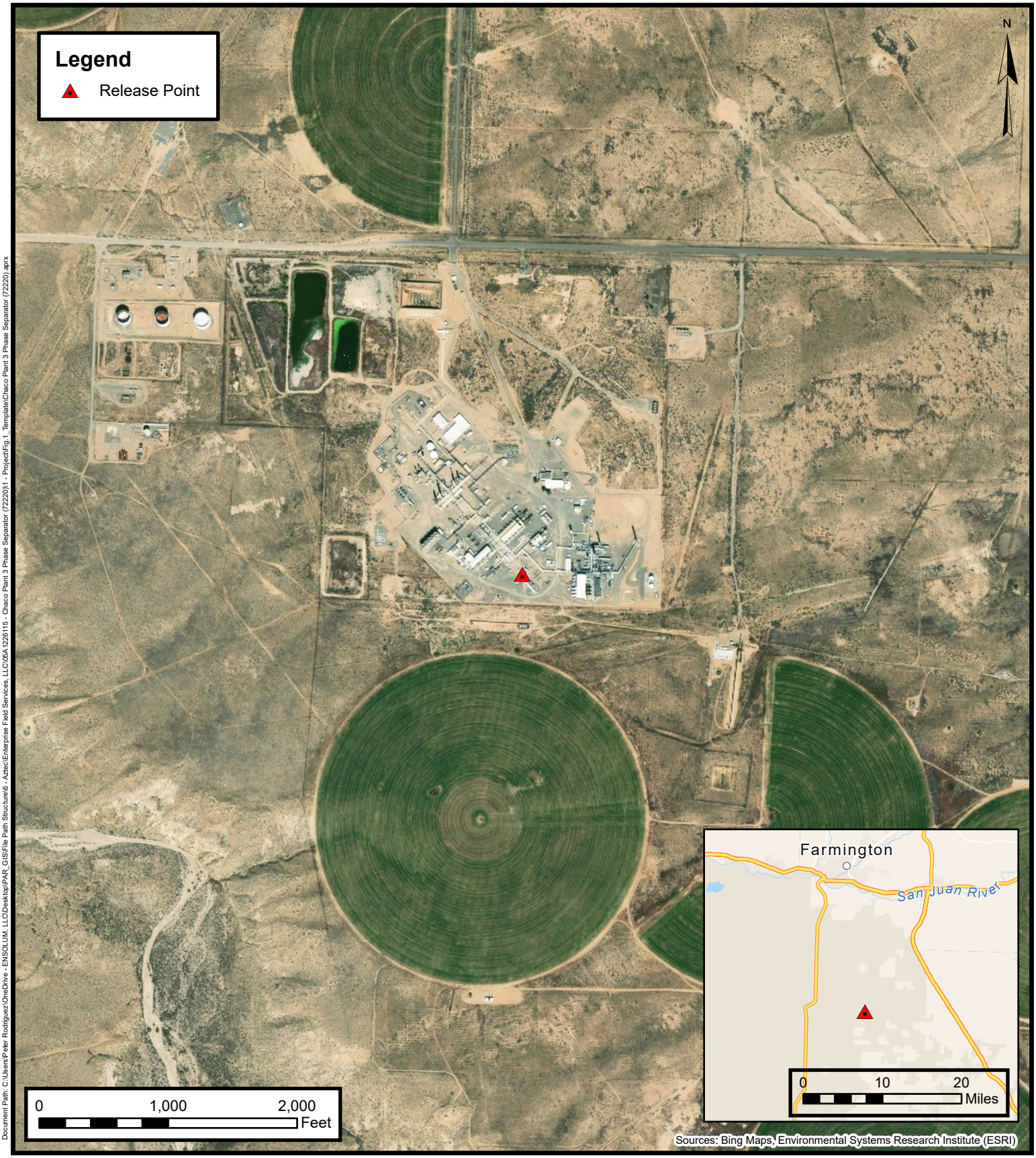
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226115 - Chaco Plant 3 Phase Separator (7/22/20)\1 - Project\Fig.1_Template\Chaco Plant 3 Phase Separator (7/22/20).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Project Number: 05A1226115
Unit Letter N, S16 T26N R12W, San Juan County, New Mexico
36.481637, -108.120470

FIGURE
1



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Project Number: 05A1226115
Unit Letter N, S16 T26N R12W, San Juan County, New Mexico
36.481637, -108.120470

FIGURE
2

LEGEND

- Point of Release
- Soil Boring Location (2020)
- Excavation Composite Soil Sample Location (2020)
- Monitoring Well Location (2021)
- Above Ground Pipeline
- Below Grade PVC Pipeline
- Below Grade Pipeline
- Extent of Aliquot Collection for Associated Composite Sample
- Support Structure
- Extent of 2020 Excavation

Notes:

* - Concentrations form Sample IDs exceed the Applicable NM EMNRD OCD Closure Criteria.
The soil associated with these samples remain in place.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Map

ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Unit Letter N, S16 T26N R12W
Juan County, New Mexico
36.481637, -108.120470

Figure 3

Project Number: 05A1226115

Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226115 - Chaco Plant 3 Phase Separator (7/22/20)\1 - Project\Fig.1_Template\Chaco Plant 3 Phase Separator (7/22/20).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Groundwater Gradient Map (February 2024)

ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Project Number: 05A1226115
Unit Letter N, S16 T26N R12W, San Juan County, New Mexico
36.481637, -108.120470

FIGURE
4A

Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226115 - Chaco Plant 3 Phase Separator (7/22/20)\1 - Project\Fig.1_Template\Chaco Plant 3 Phase Separator (7/22/20).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Groundwater Gradient Map (December 2024)

ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Project Number: 05A1226115
Unit Letter N, S16 T26N R12W, San Juan County, New Mexico
36.481637, -108.120470

FIGURE
4B

LEGEND

- Point of Release
- Monitoring Well Location (2021)
- Above Ground Pipeline
- Below Grade PVC Pipeline
- Below Grade Pipeline
- Extent of Aliquot Collection for Associated Composite Sample
- Support Structure
- Extent of 2020 Excavation

Notes:
Benzene concentrations are listed in micrograms per liter (µg/L).

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Environmental, Engineering and Hydrogeologic Consultants

WQCC Standard Exceedances

(February 2024)

ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Unit Letter N, S16 T26N R12W
Juan County, New Mexico
36.481637, -108.120470

Figure 5A

Project Number: 05A1226115

LEGEND

- Point of Release
- Monitoring Well Location (2021)
- Above Ground Pipeline
- Below Grade PVC Pipeline
- Below Grade Pipeline
- Extent of Aliquot Collection for Associated Composite Sample
- Support Structure
- Extent of 2020 Excavation

Notes:
Benzene concentrations are listed in micrograms per liter (µg/L).

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

WQCC Standard Exceedances
(December 2024)
ENTERPRISE FIELD SERVICES L.L.C.
Chaco Plant 3 Phase Separator (7/22/20)
Unit Letter N, S16 T26N R12W
Juan County, New Mexico
36.481637, -108.120470

Figure 5B

Project Number: 05A1226115

ENSOLUM

APPENDIX B

Regulatory Correspondence

From: Kyle Summers
To: Dan Moir
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 302995
Date: Tuesday, March 25, 2025 8:29:26 PM

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

-----Original Message-----
From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, April 5, 2024 6:50 PM
To: Kyle Summers <ksummers@ensolum.com>
Subject: Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 302995

[**EXTERNAL EMAIL**]

FYI
Tom Long

Begin forwarded message:

From: OCDOnline@state.nm.us
Date: April 5, 2024 at 2:28:50 PM MDT
To: "Long, Thomas" <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 302995

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has approved the submitted Ground Water Abatement (GROUND WATER ABATEMENT), for incident ID (n#) nRM2021235744, with the following conditions:

* 2023 Groundwater Monitoring Report for Chaco Plant 3 Phase Separator: Content Satisfactory 1. Continue to conduct semi-annual groundwater sampling for analysis. 2. Submit the 2024 Groundwater Monitoring Report by April 1, 2025. 3. Establish if monitored natural attenuation is a viable options for abatement and propose recommendation to NMOCD. 4. If a stage 2 abatement plan is in place, a modification to the abatement plan to incorporate a change in remediation/abatement of groundwater contaminants will need to be implemented and approved by OCD.

The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Michael Buchanan
Environmental Specialist
505-490-0798
Michael.Buchanan@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Kyle Summers
To: Dan Moir
Subject: FW: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling
Date: Tuesday, March 25, 2025 8:29:09 PM
Attachments: image007.png
image008.png
image009.png
image001.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Kyle Summers
Sent: Tuesday, February 13, 2024 3:19 PM
To: Ranee Deechilly <rdeechilly@ensolum.com>
Subject: FW: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, February 13, 2024 2:37 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Kyle Summers <ksummers@ensolum.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling

[**EXTERNAL EMAIL**]

Nelson,

The email is a notification that Enterprise will be conducting groundwater monitoring and sampling activities at the Chaco Plant 3 Phase Separator release site; Incident ID: NRM202123574 on Tuesday February 20, 2024. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, February 18, 2022 9:36 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling

Nelson,

This email is a notification that Enterprise will be groundwater sampling at the Chaco Plant Three Phase Separator release site on Tuesday, February 22, 2022. We had to reschedule this from last week. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, February 11, 2022 8:34 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 -

Groundwater sampling

Nelson,

This email is a notification that Enterprise will be groundwater sampling at the Chaco Plant Three Phase Separator release site on Tuesday, February 15, 2022. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Wednesday, August 4, 2021 8:44 AM
To: Kyle Summers <ksummers@ensolum.com>
Cc: Long, Thomas <tjlong@eprod.com>; Stone, Brian <bmstone@eprod.com>; Ranee Deechilly <rdeechilly@ensolum.com>
Subject: [EXTERNAL] RE: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling

[Use caution with links/attachments]
Kyle,

Thanks for the update

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Kyle Summers <ksummers@ensolum.com>
Sent: Wednesday, August 4, 2021 8:32 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: 'Long, Thomas' <tjlong@eprod.com>; Stone, Brian <bmstone@eprod.com>; Ranee Deechilly <rdeechilly@ensolum.com>
Subject: FW: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 -

Groundwater sampling

Cory,
We were not able to enter the Chaco Plant today due to unscheduled maintenance. We are currently rescheduled for 8 AM on Friday, August 6, 2021.

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Kyle Summers
Sent: Monday, August 2, 2021 8:06 AM
To: Smith, Cory <cory.smith@state.nm.us>
Cc: 'Long, Thomas' <tjlong@eprod.com>; Stone, Brian <bmstone@eprod.com>; Ranee Deechilly <rdeechilly@ensolum.com>
Subject: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling

Mr. Smith,
Groundwater sampling at the Chaco Gas Plant Phase 3 Separator site is currently scheduled to begin at 8 AM on Wednesday, August 4, 2021. I don't think I have heard back from you with regard to the analytical suite, if you have any input. Let me know if you have any questions.

Thanks,
Kyle Summers

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Kyle Summers
Sent: Friday, July 23, 2021 10:29 AM
To: 'cory.smith@state.nm.us' <cory.smith@state.nm.us>
Cc: 'Long, Thomas' <tjlong@eprod.com>; Ranee Deechilly <rdeechilly@ensolum.com>; Stone, Brian <bmstone@eprod.com>
Subject: Enterprise Chaco Plant Phase 3 Separator - Incident ID: NRM2021235744 - Groundwater sampling analytical parameters

Cory, it isn't scheduled yet, but we are looking at groundwater sampling at Chaco next week if Operations can accommodate. I believe the initial source area well was sampled for 8260,

cations/anions, pH, and TDS. Benzene and TDS exceeded standards.
Will you want that same analytical suite again?
In Tom's absence, I'll notify when/if I get a schedule.
Thanks,
Kyle

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Kyle Summers
To: Dan Moir
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 414844
Date: Tuesday, March 25, 2025 8:30:03 PM
Attachments: image002.png
image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, December 23, 2024 2:20 PM
To: Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 414844

[**EXTERNAL EMAIL**]

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, December 23, 2024 2:19 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 414844

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nRM2021235744.

The sampling event is expected to take place:

When: 12/30/2024 @ 09:30
Where: N-16-26S-12W 0 FNL 0 FEL (36.481637,-108.12047)

Additional Information: Ensolum, LLC

Additional Instructions: 36.481637,-108.12047

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ENSOLUM

APPENDIX C

Tables

ENSOLUM

TABLE 1
Chaco Plant 3 Phase Separator (7/22/20)
GROUNDWATER ANALYTICAL SUMMARY - DETECTED VOLATILE ORGANIC COMPOUNDS

Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	Chloroform (µg/L)	Carbon Tetrachloride (µg/L)	Tetrachloroethene (PCE) (µg/L)	Trichloroethene (TCE) (µg/L)	Bromodichloromethane[2] (µg/L)	Bromoform[1] (µg/L)	Chlorobenzene[1] (µg/L)	1,2,4-Trimethylbenzene[1,2] (µg/L)	1,3,5-Trimethylbenzene[1,2] (µg/L)	2-Chlorotoluene[1,2] (µg/L)	4-Chlorotoluene[1,2] (µg/L)	Dibromochloromethane[1] (µg/L)	Isopropylbenzene[1,2] (µg/L)	n-Propylbenzene[1,2] (µg/L)	sec-Butylbenzene[1,2] (µg/L)
New Mexico Water Quality Control Commmission Human Health Standards		5	1,000	700	620	30	100	5	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Water Sample Collected from the Temporary Monitoring Well																					
TW-1/EW-1	3.24.21	**88**	<1.0	29	170	2.7	3.3	<1.0	<1.0	<1.0	1.6	<1.0	4.4	10	4.3	5.1	1.3	1.1	3.2	1.5	<1.0
Water Samples Collected from the Monitoring Wells																					
EW-1	8.06.21	**53**	<5.0	58	10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.3	9.1	<5.0	6.0	<5.0	<5.0	12	<5.0	<5.0
	2.22.22	**12**	<2.0	40	<3.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	7.8	16	<2.0	6.5	<2.0	<2.0	10	4.1	<2.0
	9.12.22	**11**	<1.0	18	1.7	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.6	5.9	<1.0	4.4	<1.0	<1.0	5.9	2.2	2.4
	2.7.23[A]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8.23.23	**22**	<1.0	23	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	<1.0	4.3	<1.0	<1.0	8.5	2.7	3.0
	2.20.24	**17**	<1.0	26	1.8	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	<1.0	4.2	<1.0	<1.0	9.4	2.5	2.3
	12.30.24	**54**	<1.0	21	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EW-2	8.06.21	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.22.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9.12.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.7.23	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	8.23.23	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.20.24	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12.30.24	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EW-3	8.06.21	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.22.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9.12.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.7.23	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	8.23.23	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.20.24	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12.30.24	<1.0	<1.0	<1.0	<2.0	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EW-4	8.06.21	<5.0	<5.0	<5.0	<7.5	<10	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	2.22.22	<2.0	<2.0	<2.0	<3.0	<4.0	49	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	9.12.22	<1.0	<1.0	<1.0	<1.5	<2.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2.7.23	<1.0	<1.0	<1.0	<1.5	<2.0	**120**	2.4	2.6	1.2	5.7	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0
	8.23.23	<1.0	<1.0	<1.0	<1.5	<2.0	**150**	3.1	3.3	1.3	5.1	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0
	2.20.24	<1.0	<1.0	<1.0	<1.5	<2.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12.30.24	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ENSOLUM

TABLE 1
Chaco Plant 3 Phase Separator (7/22/20)
GROUNDWATER ANALYTICAL SUMMARY - DETECTED VOLATILE ORGANIC COMPOUNDS

Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	Chloroform (µg/L)	Carbon Tetrachloride (µg/L)	Tetrachloroethene (PCE) (µg/L)	Trichloroethene (TCE) (µg/L)	Bromodichloromethane[2] (µg/L)	Bromoform[1] (µg/L)	Chlorobenzene[1] (µg/L)	1,2,4-Trimethylbenzene[1,2] (µg/L)	1,3,5-Trimethylbenzene[1,2] (µg/L)	2-Chlorotoluene[1,2] (µg/L)	4-Chlorotoluene[1,2] (µg/L)	Dibromochloromethane[1] (µg/L)	Isopropylbenzene[1,2] (µg/L)	n-Propylbenzene[1,2] (µg/L)	sec-Butylbenzene[1,2] (µg/L)
New Mexico Water Quality Control Commmission Human Health Standards		**5**	**1,000**	**700**	**620**	**30**	**100**	**5**	**5**	**5**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**

*Concentrations in **bold** and yellow exceed the applicable WQCC HHS*

[1] = Constituent is not identified as "toxic pollutant" under 20.6.2 New Mexico Administrative Code (NMAC).

[2] = Constituent is not identified as a priority pollutant under the Federal Clean Water Act (CWA).

[A] - Monitoring well EW-1 was not sampled due to ice covering the well head.

µg/L = microgram per liter

NE = Not Established

NA = Not Analyzed

NS = Not Sampled

<1.0 = The numeral (in this case "1.0") identifies the laboratory reporting limit (RL) or practical quantitation limit (PQL).

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TABLE 2
Chaco Plant 3 Phase Separator (7/22/20)
GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Well Depth (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
EW-1	8.6.21	ND	12.29	ND	20	10-20	6026.96	6014.67
	2.22.22	ND	12.45	ND				6014.51
	9.12.22	ND	12.20	ND				6014.76
	2.7.23[A]	NG	NG	NG				NG
	8.23.23	ND	12.00	ND				6014.96
	2.20.24	ND	12.47	ND				6014.49
	12.30.24	ND	12.18	ND				6014.78
EW-2	8.6.21	ND	12.27	ND	20	10-20	6026.78	6014.51
	2.22.22	ND	12.43	ND				6014.35
	9.12.22	ND	12.16	ND				6014.62
	2.7.23	ND	12.40	ND				6014.38
	8.23.23	ND	11.92	ND				6014.86
	2.20.24	ND	12.43	ND				6014.35
	12.30.24	ND	12.14	ND				6014.64
EW-3	8.6.21	ND	13.55	ND	20	10-20	6028.28	6014.73
	2.22.22	ND	13.71	ND				6014.57
	9.12.22	ND	13.48	ND				6014.80
	2.7.23	ND	13.71	ND				6014.57
	8.23.23	ND	13.34	ND				6014.94
	2.20.24	ND	13.72	ND				6014.56
	12.30.24	ND	13.43	ND				6014.85
EW-4	8.6.21	ND	12.14	ND	20	10-20	6026.83	6014.69
	2.22.22	ND	12.30	ND				6014.53
	9.12.22	ND	12.03	ND				6014.80
	2.7.23	ND	12.30	ND				6014.53
	8.23.23	ND	11.77	ND				6015.06
	2.20.24	ND	12.33	ND				6014.50
	12.30.24	ND	12.01	ND				6014.82

Monitoring wells surveyed in September 2021

[A] - Monitoring well EW-1 was not gauged due to ice covering the well head.

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

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APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 02, 2024

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Chaco Plant 3 Phase Separator OrderNo.: 2402994

Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 2/21/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-4
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 9:10:00 AM
Lab ID: 2402994-001 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Toluene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Ethylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Naphthalene	ND	2.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
2-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Acetone	ND	10		µg/L	1	2/28/2024 6:39:00 PM	R103391
Bromobenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Bromodichloromethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Bromoform	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Bromomethane	ND	3.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
2-Butanone	ND	10		µg/L	1	2/28/2024 6:39:00 PM	R103391
Carbon disulfide	ND	10		µg/L	1	2/28/2024 6:39:00 PM	R103391
Carbon Tetrachloride	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Chlorobenzene	1.1	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Chloroethane	ND	2.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Chloroform	22	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Chloromethane	ND	3.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
2-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
4-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
cis-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Dibromochloromethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Dibromomethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,1-Dichloroethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,1-Dichloroethene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,3-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
2,2-Dichloropropane	ND	2.0		µg/L	1	2/28/2024 6:39:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-4
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 9:10:00 AM
Lab ID: 2402994-001 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Hexachlorobutadiene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
2-Hexanone	ND	10		µg/L	1	2/28/2024 6:39:00 PM	R103391
Isopropylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
4-Isopropyltoluene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
4-Methyl-2-pentanone	ND	10		µg/L	1	2/28/2024 6:39:00 PM	R103391
Methylene Chloride	ND	3.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
n-Butylbenzene	ND	3.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
n-Propylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
sec-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Styrene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
tert-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
trans-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Trichlorofluoromethane	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Vinyl chloride	ND	1.0		µg/L	1	2/28/2024 6:39:00 PM	R103391
Xylenes, Total	ND	1.5		µg/L	1	2/28/2024 6:39:00 PM	R103391
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	2/28/2024 6:39:00 PM	R103391
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	2/28/2024 6:39:00 PM	R103391
Surr: Dibromofluoromethane	104	70-130		%Rec	1	2/28/2024 6:39:00 PM	R103391
Surr: Toluene-d8	90.3	70-130		%Rec	1	2/28/2024 6:39:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-2
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 9:55:00 AM
Lab ID: 2402994-002 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Toluene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Ethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Naphthalene	ND	2.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
2-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Acetone	ND	10		µg/L	1	2/28/2024 7:04:00 PM	R103391
Bromobenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Bromodichloromethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Bromoform	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Bromomethane	ND	3.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
2-Butanone	ND	10		µg/L	1	2/28/2024 7:04:00 PM	R103391
Carbon disulfide	ND	10		µg/L	1	2/28/2024 7:04:00 PM	R103391
Carbon Tetrachloride	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Chlorobenzene	2.3	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Chloroethane	ND	2.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Chloroform	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Chloromethane	ND	3.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
2-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
4-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
cis-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Dibromochloromethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Dibromomethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,1-Dichloroethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,1-Dichloroethene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,3-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
2,2-Dichloropropane	ND	2.0		µg/L	1	2/28/2024 7:04:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-2
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 9:55:00 AM
Lab ID: 2402994-002 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Hexachlorobutadiene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
2-Hexanone	ND	10		µg/L	1	2/28/2024 7:04:00 PM	R103391
Isopropylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
4-Isopropyltoluene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
4-Methyl-2-pentanone	ND	10		µg/L	1	2/28/2024 7:04:00 PM	R103391
Methylene Chloride	ND	3.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
n-Butylbenzene	ND	3.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
n-Propylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
sec-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Styrene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
tert-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
trans-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Trichlorofluoromethane	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Vinyl chloride	ND	1.0		µg/L	1	2/28/2024 7:04:00 PM	R103391
Xylenes, Total	ND	1.5		µg/L	1	2/28/2024 7:04:00 PM	R103391
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	2/28/2024 7:04:00 PM	R103391
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	2/28/2024 7:04:00 PM	R103391
Surr: Dibromofluoromethane	105	70-130		%Rec	1	2/28/2024 7:04:00 PM	R103391
Surr: Toluene-d8	90.0	70-130		%Rec	1	2/28/2024 7:04:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-3
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 10:32:00 AM
Lab ID: 2402994-003 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Toluene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Ethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Naphthalene	ND	2.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
2-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Acetone	ND	10		µg/L	1	2/28/2024 7:29:00 PM	R103391
Bromobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Bromodichloromethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Bromoform	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Bromomethane	ND	3.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
2-Butanone	ND	10		µg/L	1	2/28/2024 7:29:00 PM	R103391
Carbon disulfide	ND	10		µg/L	1	2/28/2024 7:29:00 PM	R103391
Carbon Tetrachloride	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Chlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Chloroethane	ND	2.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Chloroform	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Chloromethane	ND	3.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
2-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
4-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
cis-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Dibromochloromethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Dibromomethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,1-Dichloroethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,1-Dichloroethene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,3-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
2,2-Dichloropropane	ND	2.0		µg/L	1	2/28/2024 7:29:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-3
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 10:32:00 AM
Lab ID: 2402994-003 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Hexachlorobutadiene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
2-Hexanone	ND	10		µg/L	1	2/28/2024 7:29:00 PM	R103391
Isopropylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
4-Isopropyltoluene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
4-Methyl-2-pentanone	ND	10		µg/L	1	2/28/2024 7:29:00 PM	R103391
Methylene Chloride	ND	3.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
n-Butylbenzene	ND	3.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
n-Propylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
sec-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Styrene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
tert-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
trans-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Trichlorofluoromethane	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Vinyl chloride	ND	1.0		µg/L	1	2/28/2024 7:29:00 PM	R103391
Xylenes, Total	ND	1.5		µg/L	1	2/28/2024 7:29:00 PM	R103391
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	2/28/2024 7:29:00 PM	R103391
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	2/28/2024 7:29:00 PM	R103391
Surr: Dibromofluoromethane	104	70-130		%Rec	1	2/28/2024 7:29:00 PM	R103391
Surr: Toluene-d8	92.4	70-130		%Rec	1	2/28/2024 7:29:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-1
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 11:15:00 AM
Lab ID: 2402994-004 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	17	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Toluene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Ethylbenzene	26	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Naphthalene	ND	2.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
2-Methylnaphthalene	ND	4.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Acetone	ND	10		µg/L	1	2/28/2024 7:53:00 PM	R103391
Bromobenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Bromodichloromethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Bromoform	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Bromomethane	ND	3.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
2-Butanone	ND	10		µg/L	1	2/28/2024 7:53:00 PM	R103391
Carbon disulfide	ND	10		µg/L	1	2/28/2024 7:53:00 PM	R103391
Carbon Tetrachloride	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Chlorobenzene	5.6	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Chloroethane	ND	2.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Chloroform	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Chloromethane	ND	3.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
2-Chlorotoluene	4.2	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
4-Chlorotoluene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
cis-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Dibromochloromethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Dibromomethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,1-Dichloroethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,1-Dichloroethene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,3-Dichloropropane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
2,2-Dichloropropane	ND	2.0		µg/L	1	2/28/2024 7:53:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402994**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** EW-1
Project: Chaco Plant 3 Phase Separator **Collection Date:** 2/20/2024 11:15:00 AM
Lab ID: 2402994-004 **Matrix:** AQUEOUS **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Hexachlorobutadiene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
2-Hexanone	ND	10		µg/L	1	2/28/2024 7:53:00 PM	R103391
Isopropylbenzene	9.4	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
4-Isopropyltoluene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
4-Methyl-2-pentanone	ND	10		µg/L	1	2/28/2024 7:53:00 PM	R103391
Methylene Chloride	ND	3.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
n-Butylbenzene	ND	3.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
n-Propylbenzene	2.5	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
sec-Butylbenzene	2.3	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Styrene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
tert-Butylbenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
trans-1,2-DCE	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Trichlorofluoromethane	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Vinyl chloride	ND	1.0		µg/L	1	2/28/2024 7:53:00 PM	R103391
Xylenes, Total	1.8	1.5		µg/L	1	2/28/2024 7:53:00 PM	R103391
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	2/28/2024 7:53:00 PM	R103391
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/28/2024 7:53:00 PM	R103391
Surr: Dibromofluoromethane	103	70-130		%Rec	1	2/28/2024 7:53:00 PM	R103391
Surr: Toluene-d8	93.3	70-130		%Rec	1	2/28/2024 7:53:00 PM	R103391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402994**

02-Mar-24

Client: ENSOLUM

Project: Chaco Plant 3 Phase Separator

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R103391**	RunNo: **103391**
Prep Date:	Analysis Date: **2/28/2024**	SeqNo: **3824888** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	19	1.0	20.00	0	93.5	70	130			
Chlorobenzene	19	1.0	20.00	0	95.9	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.6	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.5	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.2		10.00		91.8	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R103391**	RunNo: **103391**
Prep Date:	Analysis Date: **2/28/2024**	SeqNo: **3824889** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2402994**
02-Mar-24

Client: ENSOLUM
Project: Chaco Plant 3 Phase Separator

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R103391**	RunNo: **103391**
Prep Date:	Analysis Date: **2/28/2024**	SeqNo: **3824889** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402994**

02-Mar-24

Client: ENSOLUM

Project: Chaco Plant 3 Phase Separator

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R103391**	RunNo: **103391**
Prep Date:	Analysis Date: **2/28/2024**	SeqNo: **3824889** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.1		10.00		90.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2402994** RcptNo: 1

Received By: **Tracy Casarrubias** **2/21/2024 7:00:00 AM**

Completed By: **Tracy Casarrubias** **2/21/2024 9:25:19 AM**

Reviewed By: JM 2-21-24

Chain of Custody

1. Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐	
2. How was the sample delivered?	Courier			

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TM 2/21/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Phone number is missing on COC - TMC

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes	Yogi		

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A, Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other ______

☐ EDD (Type) ______

Turn-Around Time: ☒ Standard ☐ Rush ______

Project Name: Chaco Plant 3 Phase Separator

Project #: see notes

Project Manager: Ksummers

Sampler: R Deechilly

On Ice: ☑ Yes ☐ No 409j

# of Coolers: 1

Cooler Temp (Including CF): 0.4 ± 0 = 0.4 (°C)

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2402994	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2/20/24	910	W	EW-4	(3) 40mL VOA	$HgCl_2$	001								X							
2/20/24	955	W	EW-2	(3) 40mL VOA	$HgCl_2$	002								X							
2/20/24	1032	W	EW-3	(3) 40mL VOA	$HgCl_2$	003								X							
2/20/24	1115	W	EW-1	(3) 40mL VOA	$HgCl_2$	004								X							

Date	Time	Relinquished by	Received by	Via	Date	Time
2/20/24	1434	[signature]	[signature]		2/20/24	1434
2/20/24	1740	[signature]		courier	2/21/24	7:00

Remarks: PM - Tom Long (EPROD)
Pay key - SF11548
Non AFE - N48994

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 1/3/2025 3:38:08 PM

JOB DESCRIPTION

Chaco Plant Water Release 2020

JOB NUMBER

885-17713-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
1/3/2025 3:38:08 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: Chaco Plant Water Release 2020

Laboratory Job ID: 885-17713-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Glossary

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

Case Narrative

Client: Ensolum Job ID: 885-17713-1
Project: Chaco Plant Water Release 2020

Job ID: 885-17713-1 Eurofins Albuquerque

Job Narrative
885-17713-1

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

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

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

Receipt
The samples were received on 12/31/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

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

Client Sample Results

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Client Sample ID: EW-3
Lab Sample ID: 885-17713-1

Date Collected: 12/30/24 09:55
Matrix: Water
Date Received: 12/31/24 07:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			01/02/25 12:41	1
Ethylbenzene	ND		1.0		ug/L			01/02/25 12:41	1
Toluene	ND		1.0		ug/L			01/02/25 12:41	1
Xylenes, Total	ND		2.0		ug/L			01/02/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*43 - 158*		*01/02/25 12:41*	*1*

Client Sample Results

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Client Sample ID: EW-2
Lab Sample ID: 885-17713-2

Date Collected: 12/30/24 11:00
Matrix: Water
Date Received: 12/31/24 07:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			01/02/25 13:05	1
Ethylbenzene	ND		1.0		ug/L			01/02/25 13:05	1
Toluene	ND		1.0		ug/L			01/02/25 13:05	1
Xylenes, Total	ND		2.0		ug/L			01/02/25 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*43 - 158*		*01/02/25 13:05*	*1*

Client Sample Results

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Client Sample ID: EW-1
Lab Sample ID: 885-17713-3
Date Collected: 12/30/24 11:40
Matrix: Water
Date Received: 12/31/24 07:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**54**		1.0		ug/L			01/02/25 13:29	1
Ethylbenzene	**21**		1.0		ug/L			01/02/25 13:29	1
Toluene	ND		1.0		ug/L			01/02/25 13:29	1
Xylenes, Total	**2.4**		2.0		ug/L			01/02/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*		*43 - 158*		*01/02/25 13:29*	*1*

Client Sample Results

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Client Sample ID: EW-4
Lab Sample ID: 885-17713-4

Date Collected: 12/30/24 12:20
Matrix: Water
Date Received: 12/31/24 07:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			01/02/25 13:53	1
Ethylbenzene	ND		1.0		ug/L			01/02/25 13:53	1
Toluene	ND		1.0		ug/L			01/02/25 13:53	1
Xylenes, Total	ND		2.0		ug/L			01/02/25 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*43 - 158*		*01/02/25 13:53*	*1*

QC Sample Results

Client: Ensolum

Job ID: 885-17713-1

Project/Site: Chaco Plant Water Release 2020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-18697/6
Matrix: Water
Analysis Batch: 18697

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			01/02/25 12:17	1
Ethylbenzene	ND		1.0		ug/L			01/02/25 12:17	1
Toluene	ND		1.0		ug/L			01/02/25 12:17	1
Xylenes, Total	ND		2.0		ug/L			01/02/25 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*43 - 158*		*01/02/25 12:17*	*1*

Lab Sample ID: LCS 885-18697/5
Matrix: Water
Analysis Batch: 18697

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.0	19.9		ug/L		100	70 - 130		
Ethylbenzene			20.0	21.7		ug/L		108	70 - 130		
Toluene			20.0	21.2		ug/L		106	70 - 130		
Xylenes, Total			60.0	63.7		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*43 - 158*

Lab Sample ID: 885-17713-1 MS
Matrix: Water
Analysis Batch: 18697

Client Sample ID: EW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		20.0	21.6		ug/L		106	70 - 130		
Ethylbenzene	ND		20.0	22.4		ug/L		112	70 - 130		
Toluene	ND		20.0	22.3		ug/L		111	70 - 130		
Xylenes, Total	ND		60.0	66.6		ug/L		111	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*43 - 158*

Lab Sample ID: 885-17713-1 MSD
Matrix: Water
Analysis Batch: 18697

Client Sample ID: EW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		20.0	21.1		ug/L		104	70 - 130	3	20
Ethylbenzene	ND		20.0	22.2		ug/L		111	70 - 130	1	20
Toluene	ND		20.0	21.6		ug/L		108	70 - 130	3	20
Xylenes, Total	ND		60.0	66.1		ug/L		110	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*43 - 158*

QC Association Summary

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

GC VOA

Analysis Batch: 18697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17713-1	EW-3	Total/NA	Water	8021B	
885-17713-2	EW-2	Total/NA	Water	8021B	
885-17713-3	EW-1	Total/NA	Water	8021B	
885-17713-4	EW-4	Total/NA	Water	8021B	
MB 885-18697/6	Method Blank	Total/NA	Water	8021B	
LCS 885-18697/5	Lab Control Sample	Total/NA	Water	8021B	
885-17713-1 MS	EW-3	Total/NA	Water	8021B	
885-17713-1 MSD	EW-3	Total/NA	Water	8021B	

Lab Chronicle

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Client Sample ID: EW-3
Lab Sample ID: 885-17713-1
Date Collected: 12/30/24 09:55
Matrix: Water
Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	18697	JP	EET ALB	01/02/25 12:41

Client Sample ID: EW-2
Lab Sample ID: 885-17713-2
Date Collected: 12/30/24 11:00
Matrix: Water
Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	18697	JP	EET ALB	01/02/25 13:05

Client Sample ID: EW-1
Lab Sample ID: 885-17713-3
Date Collected: 12/30/24 11:40
Matrix: Water
Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	18697	JP	EET ALB	01/02/25 13:29

Client Sample ID: EW-4
Lab Sample ID: 885-17713-4
Date Collected: 12/30/24 12:20
Matrix: Water
Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	18697	JP	EET ALB	01/02/25 13:53

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-17713-1
Project/Site: Chaco Plant Water Release 2020

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Chaco Plant Water Release 2020

Project #: SEE NOTES ~~05A1226115~~

Project Manager:

Sampler:

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 Yori

Cooler Temp (including CF): 0.7-0.2=0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-17713 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
~~12/30/24~~	9:55	W	EW-3	3x40mL VOA	HCl	1	X									
	11:00	W	EW-2			2	X									
	11:40	W	EW-1			3	X									
	12:20	W	EW-4			4	X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
~~12/30/24~~	1711				12/30/24	1711
12/30/24	1741			courier	12/31/24	7:35

Remarks:
PM Tom Long
NAFFE: N48994
PO: 302263

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-17713-1

Login Number: 17713 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 543774

CONDITIONS

Operator: ENTERPRISE FIELD SERVICES L.L.C. PO Box 4324 Houston, TX 77210	OGRID: 151618
	Action Number: 543774
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	2024 AGWMR satisfactory.	2/25/2026