Received by OCD: 9/7/2021 7:47:12 AM

1625 N. French Dr., Hobbs, NM 88240District II811 S. First St., Artesia, NM 88210District III1000 Rio Brazos Road, Aztec, NM 87410District IV1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 1 of 120

Form C-141 Revis d August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

### **Responsible Party**

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NAPP2103923727
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

## **Location of Release Source**

Latitude 36.70821

Longitude -108.05361

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Crawford GC B#1E	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: : 2/1/2021	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
Ν	24	29N	12W	San Juan

Surface Owner: State Federal Tribal Private (Name: Max D. Kennemer

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls): 5-10 Barrels	Volume Recovered (bbls): None
🛛 Natural Gas	Volume Released (Mcf): 37.57 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

**Cause of Release:** On February 1, 2021, Enterprise had a release of natural gas and natural gas liquids from the Crawford GC B#1E pipeline riser. No liquids were observed on the ground surface. No washes/waterways were affected. The pipeline was isolated, depressurized, locked and tagged out. Enterprise determined this release reportable on February 3, 2021, due the volume of impacted subsurface soil and the presence for groundwater in the excavation. The final excavation dimensions measured approximately 80 feet long by 8 feet wide by 9 feet deep. Approximately 180 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. During February 2021, a groundwater investigation and groundwater remediation activities were completed. No ongoing impacts to groundwater exist. A third party closure report is included with this "Final." C-141.

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Incident ID	Page 2 of 120
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields	Title: Director, Environmental
Signature: ful	Date: 9/1/2021
email: jefields@eprod.com	Telephone: (713) 381-6684
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible par remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws an	ty of liability should their operations have failed to adequately investigate and be water, human health, or the environment nor does not relieve the responsible ad/or regulations.
Closure Approved by: Nelson Velez	Date: 03/03/2022
Printed Name: Nelson Velez	Title:Environmental Specialist – Adv



#### **CLOSURE REPORT**

Property:

Crawford GC B#1E (02/01/21) SW ¼, S24 T29N R12W San Juan County, New Mexico

NM EMNRD OCD Incident ID No. NAPP2103923727

April 8, 2021 Ensolum Project No. 05A1226137

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Ranee Deechilly Environmental Scientist

Ummo

Kyle Summers Senior Project Manager

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#### **CLOSURE REPORT**

#### Crawford GC B#1E (02/01/21) SW ¼, S24 T29N R12W San Juan County, New Mexico

#### Ensolum Project No. 05A1226137

#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)			
Site Name: Crawford GC B#1E (02/01/21) (Site)				
Incident ID	NAPP2103923727			
Location: 36.7082° North, 108.0536° West Southwest (SW) ¼ of Section 24, Township 29 North, Range 12 West San Juan County, New Mexico				
Property:	Private Property			
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)			

On February 1, 2021, a release of natural gas was identified on the Crawford GC B#1E pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On February 3, 2021, Enterprise initiated activities to facilitate the repair of the pipeline and remediate potential petroleum hydrocarbon impact.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

#### 1.2 **Project Objective**

The primary objective of the closure activities was to reduce potential constituent of concern (COC) concentrations in the on-Site soils and groundwater to below the applicable NM EMNRD OCD closure criteria and Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

#### 2.0 CLOSURE CRITERIA

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 New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Additionally, Ensolum utilized the NM WQCC GQSs (NMAC 20.6.2 *Groundwater and Surface Water Protection*) to evaluate groundwater conditions. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

• The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other

Closure Report Enterprise Field Services, LLC Crawford GC B #1E (02/01/21) April 8, 2021



points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). Numerous PODS were identified in the same Public Land Survey System (PLSS) section as the Site as well as in adjacent sections. The average depth to water for the PODs located in this PLSS section and in adjacent PLSS sections is approximately 21 feet below grade surface (bgs). The records for the closest PODs (SJ-03786 and SJ-03735), located approximately 400 feet and 350 feet, respectively, southwest of the Site, indicate depths to water of 11 feet and 15 feet bgs, respectively. The depth to water encountered during remediation activities was approximately seven (7) feet bgs (**Figure A**, **Appendix B**).

- Two (2) cathodic wells were identified in PLSS sections adjacent to the Site in the NM EMNRD OCD imaging database. The records for the cathodic protection well located near the H.J.Loe "B" Fed #2R (Sec 23, T29N, R12W) well location indicate a depth to water of approximately 235 feet bgs. This cathodic protection well is located approximately 0.9 miles northwest of the Site. The records for the cathodic protection well located near the G.C.U #145-E (Sec 26, T29N, R12W) well location indicate a depth to water of approximately 0.9 miles cathodic protection well located near the G.C.U #145-E (Sec 26, T29N, R12W) well location indicate a depth to water of approximately 60 feet bgs. This cathodic protection well is located approximately 60 feet bgs. This cathodic protection well is located approximately 1.2 miles southwest of the Site. (Figure B, Appendix B).
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined significant watercourse. The Site is adjacent to an ephemeral wash (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is located within 300 feet of a permanent residence, school, hospital, institution, or church. The nearest permanent residence is located approximately 120 feet south of the Site (Figure D, Appendix B).
- Based on information provided by the OSE WRRS there are private domestic fresh water wells used by less than five (5) households for domestic and/or stock watering purposes within 500 feet of the Site. The nearest wells are indicated by the OSE WRRS database at approximately 350 feet and 400 feet southwest of the Site (**Figure E**, **Appendix B**).
- Based on information provided by the OSE WRRS there are fresh water wells identified within 1,000 feet of the Site. Some residences located within the 1,000 feet may also have unregistered water wells (**Figure E**, **Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the United States (US) Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is located within 300 feet of a wetland. The Site is located approximately 95 feet west of a freshwater forested/shrub area; 240 feet northwest of a freshwater emergent wetland; and 270 feet northwest of a forested/shrub riparian zone (Figure F, Appendix B).
- Based on information identified on the New Mexico Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is located within a 100-year floodplain (**Figure H**, **Appendix B**).

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Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release									
Constituent*	Limit								
Chloride	600 mg/kg								
TPH (GRO+DRO+MRO) <sup>1</sup>	EPA SW-846 Method 8015	100 mg/kg							
BTEX <sup>2</sup>	EPA SW-846 Method 8021 or 8260	50 mg/kg							
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg							

\*-Constituent concentrations are in milligrams per kilograms (mg/kg).

<sup>1</sup> – Total Petroleum Hydrocarbon (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>2</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

#### 3.0 REMEDIATION ACTIVITIES

On February 3, 2021, Enterprise initiated activities to facilitate the repair of the pipeline and remediate potential petroleum hydrocarbon impact resulting from the Crawford GC B#1E pipeline release. During the remediation and corrective action activities, Sierra Oilfield Services Inc., (Sierra) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

During remediation activities, water was encountered at approximately seven (7) feet bgs. The water in the excavation was pumped utilizing a spec-truck to remove water that contacted the affected soil during remediation activities and was subsequently disposed of at the Industrial Ecosystems, Inc., (IEI) landfarm on Crouch Mesa near Aztec, NM.

The final excavation measured approximately 80 feet long and eight (8) feet wide at the maximum extents. The maximum depth of the excavation measured approximately nine (9) feet bgs.

The lithology encountered during the completion of remediation activities ranged from unconsolidated silty sand to medium-grained unconsolidated sand and cobbles.

Upon completion of pipeline repair and soil remediation activities, Enterprise corresponded with the NM EMNRD OCD and determined that temporary sampling points would be installed at the Site to evaluate groundwater. On February 19, 2021, two (2) temporary sampling points were installed at the Site during the backfill activities to provide access to groundwater for sampling. Regulatory correspondence is provided in **Appendix C**.

The two (2) temporary sample points (TW-1 and TW-2) were completed using the following methodology:

- Installation of five (5) feet of 2-inch diameter, 0.010 machine slotted polyvinyl chloride (PVC) well screen with a threaded bottom plug;
- Installation of PVC riser pipe to above the ground surface;
- Installation of a locking well cap.

The sample points were developed by removing groundwater until the fluid appeared relatively free of finegrained sediment.

Approximately 180 cubic yards of petroleum hydrocarbon affected soils and 10 barrels (bbls) of water were transported to the IEI landfarm for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix D**. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soils.

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**Figure 3** (**Appendix A**) identifies the approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline. **Figure 4** (**Appendix A**) identifies the approximate water sample locations with respect to the excavation. Photographic documentation of the field activities is included in **Appendix E**.

#### 4.0 SOIL AND WATER SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG<sup>®</sup> hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of eight (8) composite soil samples (S-1 through S-8) from the excavation for laboratory analysis. In addition, six (6) composite soil samples (SP-1 through SP-6) were collected from the stockpiled soils that were segregated for potential reuse, to confirm the material was suitable to remain on Site and to confirm the western extent of impact was delineated. The composite samples were comprised of five (5) aliquots each, representing an estimated 200 square foot sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. A clean shovel was utilized to obtain fresh aliquots from each accessible area of the excavation.

#### First Sampling Event

On February 3, 2021, the first sampling event was performed at the Site. Soil samples were collected in the immediate vicinity of the release point, and one sample (SP-1) was collected from stockpiled soil adjacent to the release point.

Composite soil samples S-1 (7') and S-4 (7') were collected from the floor of the excavation. Composite soil samples S-2 (0'-7'), S-3 (0'-7'), and S-5 (0'-7') were collected from the sidewalls of the excavation.

Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples S-1 and S-2. In response to the data exceedances, the excavation was extended. During the enlargement of the excavation, groundwater was encountered. Enterprise upgraded the Site to a "reportable" release and the NM EMNRD OCD was formally notified. The soils associated with composite soil samples S-1, S-2, and SP-1 were removed from the Site and transported to the landfarm for disposal/remediation.

#### Second Sampling Event

On February 8, 2021, the second sampling event was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities.

Composite soil samples S-6 (0'-7'), S-7 (0'-7'), and S-8 (0'-7') were collected from the excavation walls. In addition, composite soil samples (SP-2 through SP-6) were collected from stockpiled soils on the west section of the excavation to demonstrate that the soils did not exhibit BTEX impact and that they were suitable for reuse as backfill.

The floor in the vicinity of the release point and in the eastern end of the excavation was further excavated following the collection of samples S-6 through S-8. Subsequent to the excavation enlargement, water was removed from the excavation utilizing a spec-truck and was subsequently transported to the IEI landfarm for disposal.

#### Third Sampling Event

On February 12, 2021, a water sample (GW-1) was collected from the open excavation utilizing a disposable bailer and was subsequently submitted for laboratory analysis to evaluate the potential for groundwater impact at the Site.

Closure Report Enterprise Field Services, LLC Crawford GC B #1E (02/01/21) April 8, 2021



Following sample collection, additional water was removed from excavation and transported to the IEI landfarm for disposal.

The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. The water analytical results for GW-1 did not identify COC concentrations above applicable WQCC standards.

#### Fourth Sampling Event

On February 19, 2021, Enterprise installed and developed two (2) temporary sampling points at the Site during backfill activities.

#### Fifth Sampling Event

On February 22, 2021, the temporary sampling points were purged of three casing volumes of water utilizing disposable bailers, and water samples were collected and submitted for laboratory analysis.

All samples were collected and placed in laboratory prepared containers. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, NM, under proper chain-of-custody procedures.

#### 5.0 LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021/8260; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The initial water sample collected from the open excavation was analyzed for BTEX using EPA SW-846 Method 8260. The water samples collected from the temporary sampling points were analyzed for VOCs using EPA SW-846 Method 8260; total dissolved solids (TDS) using Standard Method (SM) 2540C MOD; pH using SM4500H+B/9040C; cations using EPA Method 200.7; and anions using EPA Method 300.

The laboratory analytical results are summarized in **Table 1** through **Table 3** in **Appendix F**. **Table 2** only identifies the constituents that indicated a reported concentration above the laboratory practical quantitation limits (PQLs) or reporting limits (RLs). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

#### 6.0 DATA EVALUATION

#### 6.1 Soil Data Evaluation

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-3 through S-8 and SP-2 through SP-6) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-1, S-2, and SP-1 were transported to IEI landfarm for disposal/remediation and are not included in the following discussion.

 The laboratory analytical result for composite soil sample S-5 indicates a benzene concentration of 0.020 mg/kg, which is less than the applicable NM EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate that benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 10 mg/kg. Closure Report Enterprise Field Services, LLC Crawford GC B #1E (02/01/21) April 8, 2021



- The laboratory analytical results for composite soil samples S-3, S-5, and SP-2 indicate total BTEX concentrations ranging from 0.13 mg/kg (S-3) to 0.23 mg/kg (SP-2), which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate that total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-5 and S-8 indicate total combined TPH GRO/DRO/MRO concentrations of 11 mg/kg and 83 mg/kg, respectively, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate that total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg.

The soil laboratory analytical results are summarized in Table 1 (Appendix F).

#### 6.2 Water Data Evaluation

Ensolum compared the laboratory analytical results associated with the water samples to the NM WQCC Human Health Standards (HHSs) and Domestic Water Supply Standards (DWSSs). The results of the water sample analyses are summarized in **Table 2** and **Table 3** of **Appendix F**.

#### **Excavation and Temporary Sampling Points**

Although the water associated with sample GW-1 did not exhibit COC concentrations above the applicable WQCC GQSs, the water was removed by total fluids pumping (utilizing a spec-truck). Sample GW-1 is not included in the following discussion.

- The laboratory analytical results for samples TW-1 and TW-2 do not indicate benzene concentrations above the laboratory PQL/RL, which are below the WQCC HHS of 5 micrograms per liter (µg/L).
- The laboratory analytical results for samples TW-1 and TW-2 do not indicate toluene concentrations above the laboratory PQL/RL, which are below the WQCC HHS of 1,000 μg/L.
- The laboratory analytical results for samples TW-1 and TW-2 do not indicate ethylbenzene concentrations above the laboratory PQL/RL, which are below the WQCC HHS of 700 µg/L.
- The laboratory analytical results for samples TW-1 and TW-2 do not indicate total xylene concentrations above the laboratory PQL/RL, which are below the WQCC HHS of 620 µg/L.
- The laboratory analytical result for sample TW-2 indicates a styrene concentration of 1.1 μg/L. The WQCC does not have an established standard for styrene.





#### **Cations/Anions**

- The laboratory analytical results for samples TW-1 and TW-2 indicate fluoride concentrations below the laboratory PQLs/RLs, which are less than the WQCC HHS of 1.6 mg/L.
- The laboratory analytical results for samples TW-1 and TW-2 indicate chloride concentrations of 2.8 mg/L and 3.5 mg/L, respectively, which are below the WQCC DWSS of 250 mg/L.
- The laboratory analytical results for samples TW-1 and TW-2 indicate sulfate concentrations of 45 mg/L and 59 mg/L, respectively, which are below the WQCC DWSS of 600 mg/L.
- The laboratory analytical results for samples TW-1 and TW-2 indicate Nitrate + Nitrite concentrations below the laboratory PQLs/RLs, which are less than the WQCC HHS of 11 mg/L.
- The laboratory analytical results for samples TW-1 and TW-2 indicate bromide concentrations below the laboratory PQLs/RLs. There is no WQCC standard established for bromide.
- The laboratory analytical results for samples TW-1 and TW-2 indicate phosphorous concentrations below the laboratory PQLs/RLs. There is no WQCC standard established for phosphorous.
- The laboratory analytical results for samples TW-1 and TW-2 indicate calcium concentrations of 68 mg/L and 92 mg/L, respectively. There is no WQCC standard established for calcium.
- The laboratory analytical results for samples TW-1 and TW-2 indicate magnesium concentrations of 11 mg/L and 14 mg/L, respectively. There is no WQCC standard established for magnesium.
- The laboratory analytical results for samples TW-1 and TW-2 indicate potassium concentrations of 2.4 mg/L and 6.3 mg/L, respectively. There is no WQCC standard established for potassium.
- The laboratory analytical results for samples TW-1 and TW-2 indicate sodium concentrations of 17 mg/L and 20 mg/L, respectively. There is no WQCC standard established for sodium.

#### <u>рН</u>

• The laboratory analytical results for samples TW-1 and TW-2 indicate pH of 7.78 and 7.67, respectively, which are within the WQCC DWSS pH range of 6 to 9.

#### <u>TDS</u>

• The laboratory analytical results for samples TW-1 and TW-2 indicate TDS concentrations of 290 mg/L and 292 mg/L, respectively, which are below the WQCC DWSS of 1,000 mg/L.

#### **Conductivity**

The laboratory analytical results for samples TW-1 and TW-2 indicate conductivity values of 420 micromhos per centimeter (µmhos/cm) and 470 µmhos/cm, respectively. There is no WQCC standard established for conductivity.

#### Total Alkalinity

• The laboratory analytical results for samples TW-1 and TW-2 indicate total alkalinity concentrations of 169.3 mg/L Calcium (Ca) and 178.5 mg/L Ca, respectively. There is no WQCC standard established for total alkalinity.





#### 7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil and was then contoured to surrounding grade. The temporary sampling points were removed from the Site during contouring activities. Enterprise will re-seed the Site with an approved seeding mixture.

#### 8.0 FINDINGS

- Eight (8) composite soil samples were collected from the excavation and six (6) composite soil samples were collected from excavated stockpiled soils. Based on laboratory analytical results the soils remaining in place at the Site do not exhibit COC concentrations above the applicable NM EMNRD OCD closure criteria.
- Approximately 180 cubic yards of petroleum hydrocarbon affected soils and 10 bbls of water were transported to the IEI landfarm for disposal/remediation. The excavation was backfilled using imported fill and laboratory-confirmed stockpiled soils and was then contoured to the surrounding grade.
- COC concentrations in groundwater were not identified in samples above the applicable WQCC HHSs or DWSSs.

#### 9.0 **RECOMMENDATION**

Based upon the information provided herein, no additional investigation or corrective action appears warranted at this time.

#### 10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

#### **10.1** 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).

#### 10.2 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.

Closure Report Enterprise Field Services, LLC Crawford GC B #1E (02/01/21) April 8, 2021



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#### 10.3 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.



# APPENDIX A

Figures

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# APPENDIX B

Siting Figures and Documentation

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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced	been	OD has replace phaned,												
& no longer serves a water right file.)	C=the close	e file is ed)							IE 3=SW largest)		UTM in meters)		(In feet	.)
POD Number	Code	POD Sub- e basin	County	-	Q 16	-	Sec	: Tws	Rna	х	Y	-	-	Water Column
SJ 00112		SJM2	SJ					29N	-	225611	4065116* 🌍	47	26	21
SJ 00399		SJM2	SJ	2	2	4	26	29N	12W	226523	4065593* 🌍	45	25	20
SJ 00400		SJM2	SJ		4	3	24	29N	12W	227265	4066668* 🌍	83	35	48
SJ 00548		SJM2	SJ		1	1	14	29N	12W	225368	4069558* 🌍	180	60	120
SJ 00570		SJM2	SJ		1	3	25	29N	12W	226824	4065478* 🌍	36	18	18
SJ 00617		SJM2	SJ	3	4	1	25	29N	12W	227136	4065756* 🌍	47	20	27
SJ 00652		SJM2	SJ		4	1	25	29N	12W	227237	4065857* 🌍	42	20	22
SJ 00706		SJM2	SJ		4	1	25	29N	12W	227237	4065857* 🌍	49	20	29
SJ 00763		SJM2	SJ		3	4	25	29N	12W	227606	4065063* 🌍	60	20	40
SJ 00777		SJM2	SJ		1	2	26	29N	12W	226048	4066310* 🌍	47	20	27
SJ 00938		SJM2	SJ		2	1	25	29N	12W	227251	4066262* 🌍	80	40	40
SJ 01109		SJM2	SJ	1	1	2	26	29N	12W	225947	4066409* 🌍	100	70	30
SJ 01194		SJM2	SJ		4	2	26	29N	12W	226437	4065895* 🌍	38	12	26
SJ 01322		SJM2	SJ		4	1	25	29N	12W	227237	4065857* 🌍	42	20	22
SJ 01326		SJM2	SJ		2	4	26	29N	12W	226424	4065494* 🌍	50	27	23
SJ 01466		SJM2	SJ		4	2	25	29N	12W	228045	4065806* 🌍	27	14	13
SJ 01597		SJM2	SJ		2	3	24	29N	12W	227290	4067056* 🌍	40	15	25
SJ 01802		SJM2	SJ		2	4	26	29N	12W	226424	4065494* 🌍	70	18	52
SJ 01802 POD2	R	SJM2	SJ	3	2	4	26	29N	12W	226257	4065365 🌍	34	11	23
SJ 01954		SJM2	SJ		1	3	26	29N	12W	225225	4065528* 🌍	55	20	35
SJ 01956		SJM2	SJ		1	3	26	29N	12W	225225	4065528* 🌍	50	18	32
SJ 01996		SJM2	SJ		2	3	26	29N	12W	225624	4065519* 🌍	75	17	58
SJ 02082		SJM2	SJ		1	1	25	29N	12W	226852	4066282* 🌍	30	3	27
SJ 02132		SJM2	SJ	1	3	4	25	29N	12W	227505	4065162* 🌍	40	12	28
SJ 02496		SJM2	SJ	4	1	1	26	29N	12W	225351	4066241* 🌍	35	20	15
SJ 02555		SJM2	SJ		3	3	24	29N	12W	226865	4066683* 🌍	21	6	15
l location was derived from P	PLSS - se	ee Help												

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#### Rec

ece	ived by OCD: 9/7/2021 7:47												i	Page 30 of
	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replaced, O=orphaned, C=the file is	(quar						IE 3=SW		UTM in meters)		(In feet	Ň
	water right file.)	closed)	(quai	lera	a	63	sinai		nargest)	(INADOS	o nivi in meters)		(III IEEL	)
	POD Number	Sub- Code basin Co	ountv		Q 16		Sec	Tws	Rna	х	Y	-	-	Water Column
	SJ 03052		SJ	4			26	29N	-	225324	4065427* 🌍	29	15	14
	SJ 03104	SJM2	SJ	2	4	4	26	29N	12W	226509	4065193* 🌍	50		
	SJ 03173	SJM2	SJ	2	4	3	25	29N	12W	227306	4065169* 😜	60	10	50
	SJ 03325	SJM2	SJ	1	4	4	26	29N	12W	226309	4065193* 🌍	45	14	31
	SJ 03327	SJM2	SJ	1	4	4	26	29N	12W	226309	4065193* 🌍	95	70	25
	<u>SJ 03329</u>	SJM2	SJ	3	4	4	26	29N	12W	226309	4064993* 🌍	40	12	28
	<u>SJ 03337</u>	SJM2	SJ	2	2	1	26	29N	12W	225749	4066425* 🌍	50		
	SJ 03338	SJM2	SJ	2	2	1	26	29N	12W	225749	4066425* 🌍	50		
	<u>SJ 03339</u>	SJM2	SJ	2	2	1	26	29N	12W	225749	4066425* 🌍	50		
	SJ 03340	SJM2	SJ	3	3	3	25	29N	12W	226708	4064976* 🌍	45	12	33
	<u>SJ 03341</u>	SJM2	SJ	3	4	4	26	29N	12W	226309	4064993* 🌍	50		
	SJ 03414	SJM2	SJ	2	1	1	14	29N	12W	225524	4069656 🌍	90	70	20

1 4 3 24 29N 12W

4 4 3 25 29N 12W

4 4 3 25 29N 12W

1 4 3 24 29N 12W

1 4 3 24 29N 12W

3 2 4 26 29N 12W

2 2 3 25 29N 12W

1 3 4 24 29N 12W

2 2 26

2 2 26 29N 12W

3 2 25 29N 12W

3 2 25 29N 12W

3 2 25 29N 12W

29N 12W

227164

227306

227306

227164

227128

226392

227358

227631

226354

226344

227820

227830

227835

4066767\*

4064969\*

4064969\*

4066767\*

4066819

4065383

4065478

4066759

4066272

4066257

4065877

4065879

4065879 |

60

20

20

100

35

40

70

280

13

14

23

23

23

4

4

15

11

14

14

180

5

5

15

15

16

16

85

24

26

56

100

8

9

8

8

SJM2

SJM2

SJM2

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*UTM location was derived from PLS	S - see Help
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SJ 03507

SJ 03580

SJ 03580 POD1

SJ 03735 POD1

SJ 03786 POD1

SJ 03789 POD1

SJ 04108 POD1

SJ 04179 POD1

SJ 04286 POD1

SJ 04286 POD2

SJ 04287 POD1

SJ 04287 POD12

SJ 04287 POD2

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Average Depth to Water: 24 feet
Minimum Depth: 3 feet
Maximum Depth: 180 feet
Record Count: 51

#### PLSS Search:

Section(s): 24, 13, 14, 23, Township: 29N 26, 25 Range: 12W



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(qua						IE 3=SW largest)		3 UTM in meters)		(In feet	)
POD Number	POD Sub- Code basin C	ounty		Q 16		Sec	Tws	Rng	х	Y	-	-	Water Column
SJ 00875	SJM2	SJ						11W	229229	4065336* 🌍	37	20	17
SJ 01250	SJM2	SJ		4 4	4 <sup>-</sup>	19	29N	11W	229660	4066529* 🌍	60	20	40
SJ 01260	SJM2	SJ		2 2	2 3	30	29N	11W	229650	4066123* 🌍	42	16	26
SJ 01264	SJM2	SJ		2 2	2 3	30	29N	11W	229650	4066123* 🌍	27	12	15
SJ 01328	SJM2	SJ		2 2	2 3	30	29N	11W	229650	4066123* 🌍	28	15	13
SJ 01391	SJM2	SJ		2	2 3	30	29N	11W	229441	4065939* 🌍	40	25	15
SJ 01641	SJM2	SJ	3	2 2	2 '	19	29N	11W	229603	4067633* 🌍	120	55	65
SJ 01821	SJM2	SJ		4 2	2 3	30	29N	11W	229639	4065717* 🌍	70	6	64
SJ 02026	SJM2	SJ		1 :	3 ~	19	29N	11W	228572	4066989 🌍	27	6	21
SJ 02970	SJM2	SJ	2	3 4	1 <sup>-</sup>	19	29N	11W	229361	4066647* 🌍	100	18	82
SJ 03348	SJM2	SJ	3	1 2	2 3	30	29N	11W	229150	4066042* 🌍	60		
SJ 04117 POD1	SJM2	SJ	4	2 2	2 3	30	29N	11W	229689	4066051 🌍	50	15	35
SJ 04392 POD1	SJM2	SJ		4 2	2 '	19	29N	11W	229747	4066925 🌍	60		
										Average Depth to	Water:	18 f	eet
										Minimum	Depth:	6 f	eet
										Maximum	Depth:	55 f	eet
Record Count: 13													

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PLSS Search:

Section(s): 18, 19, 30

Township: 29N

Range: 11W

#### \*UTM location was derived from PLSS - see Help

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eived by OCD: 9/7/2021 7:47:12 AM	52	35 Page 33 o
DATA SHEET FOR	DEEP GROUND BED CATHODI NORTHWESTERN NEW MEX (Submit 3 copies to OCD Aztec O	
Operator <u>E.P.F.S.</u>	Location: Unit NW Se	c. <u>26</u> Twp <u>29</u> Rng <u>12</u>
Name of Well/Wells or Pipeline Servio	ced <u>G.C.U. #145-E</u>	Mt # 93462
Elevation Completion Da	nte <u>5.2-97</u> Total Depth <u>376</u>	Land Type * <u>F SF 07990</u>
Casing, Sizes, Types & Depths <u>8</u>	E P.VC. 201	
If Casing is cemented, show amounts o	& types usediO_BA45	
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts use	d
Depths & thickness of water zones wit Fresh, Clear, Salty, Sulphur, Etc		RECEIVED OCT 1 4 1997
		OIL CON DIV.
Depths gas encountered:	≠ .	0.200
Type & amount of coke breeze used:	Loresco Sul	· · · · · · · · · · · · · · · · · · ·
Depths anodes placed: $\frac{95-36}{2}$	12: 	
Depths vent pipes placed: $3cs$		
Vent pipe perforations: 220		
Remarks:	Acrie	(
	1 Jacu	

120

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\* Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

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THE LOFTIS COMPANY

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DEEP WELL GROUNDBED DATA	DATE <u>May 2, 1997</u>				
COMPANY	COUNTY <u>san Juan</u> STATE <u>M</u>				
CONTRACT NO. <u>FC-96-1000</u>	_UNIT NO				
LOCATION Gallegos CU #145E					
GROUNDBED: DEPTH <u>320</u> FT., DIA	. 7 7/8 [N., ANODES (10) 2 x 60 SHA-2				
CASING: SIZE <u>8</u> IN., DEP	тн <u>20</u> Fт.				

Дертн Fт.	DRILLER'S LOG	Resis Ohms	TIVITY Amps	Anode Number	Depth To Anode Top	Before Coke	After Coke
5	Casing						
10	••						1
15 20 25 30 35 40 45 50 55 60 65	π				· · · · · · · · · · · · · · · · · · ·		
20	Shale					· · · · ·	
25					•		
30	99						
35	••				DERI	IVE	h
40	17				DEU		
45	••		1.2		IN ACT 1	4 1997	<u> </u>
50	"		1.0				· · · · ·
55	11		0.7				177
60	18		0.9		CONTIL GO		<u> Vo</u>
65	ee		0.7			ST. 3	
70	12		1.0		[1/3]	phile et	
75	11		1.8				<b> </b>
80	11		1.9		· · · · · · · · · · · · · · · · · · ·	h	
70 75 80 85 90 95 100	11		1.9		<u>.</u>	· · · · · · · · · · · · · · · · · · ·	
-ăn l	19	· · · · · · · · · · · · · · · · · · ·	1.5				
ăš l	11		1.5		05		
ากัก	11		1.6	10	95	1.7	6.2
105	17			9	105		
110	11		1.6	9	105	1.6	5.7
115	11		1.5 1.9		114		
$\frac{11}{120}$	11			8	114	1.9	6.8
$\frac{120}{125}$	80		1.8	/	122	1.8	6.7
120 125 130			1.6		100		
135	11		1.6	6	132	1.8	6.5
	19	-	1.2				
<u>140</u> 145			1.0			· · · · · · · · · · · · · · · · · · ·	
140			1.1				
150			1.0		<u></u>		
155			0.9				
160	Sandstone & Shale		0.9				
$\frac{165}{170}$			0.8				
170			0.7				
$\frac{1}{100}$			0.7				
175 180 185			0.8				
	11		1.4				
190	"		1.5	5	190	1.5	4.8
195			1.0				
200			1.1				
205	11		1.1				
210	Shale		0.9	]			
215	"		0.8				
	tt		0.8				
220 225 230	11		0.9				
250			0.8				
235	" Shale		0.8				
240			0.8				

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COMPANY EPFS/Amoco

DATE <u>May 2, 1997</u>

LOCATION <u>Gallegos CU #145E</u>

UNIT NO. <u>93462</u>

Depth Et	DRILLER'S	LOG	Resis ohms	TIVITY AMPS	Anode Number	Depth To Anode Top	Before Coke	After Coke
245	Shale	<u> </u>     		0.8	· · · · · · · · · · · · · · · · · · ·			<u></u>
250	Sandstone		<u> </u>	0.8			+	
245 250 255	"	· · · · · · · · · · · · · · · · · · ·		0.7				
260	18	· · · · · · · · · · · · · · · · · · ·		0.8				
265	11			0.7				
270	11			0.4				
275	**		·	0.2				
280	Shale	· · · · · · · · · · · · · · · · · · ·		1.8	4	280	1.8	5.3
285	18			2.0		200	1.0	J.J.
290	11			1.8	3	288	2.1	6.0
295	11		<u> </u>	1.8	2	294	1.8	5.5
300	11			1.5	1	300	1.6	5.1
305	18			1.7	<u>-</u>		<u> </u>	
310	17						1	
315	17						1	
320	Shale						1	
260         265         270         275         280         285         290         295         300         305         310         315         320         325         330         325         340         345         350         355         360         355         360         355         360         375         380							1	· · ·
330							1	
335							1	
340	-			_				
345								
350								
355							1	
360								
365							1	
3/0								
5/5		· · · · · · · · · · · · · · · · · · ·						
580								
385 390								
390								
395							1	
400								
405								
410								
415								
420								
420 425 430								
450	· · · · · · · · · · · · · · · · · · ·							
435							ļ	
440 445	· · · · · · · · · · · · · · · · · · ·						ļ	
442							1	
450							ļ	
455							ļ	
460 465	· · · · · · · · · · · · · · · · · · ·	<u> </u>					ļ	
405		 					<b> </b>	
470							·	<b> </b>
475		:			_	l	<u> </u>	i
485						<u> </u>		
485							· · · · · · · · · · · · · · · · · · ·	
490							·	
492								
500 505		<u> </u>						
505								
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• and an and a set of the set of	30-045-22163
DATA SHEET FOR DEEP GROUND BED CA NORTHWESTERN NEW (Submit 3 copies to OCD	MEXICO
Operator TexACO EqP Inc. Locat Name of Well/Wells or Pipeline Serviced H	
Elevation Completion Date $\frac{4/19/89}{19/89}$ Tota Casing, Sizes, Types & Depths $\frac{6^{3}/4^{"}}{10}$	
If Casing is cemented, show amounts & type	s used Unknown
If Cement or Bentonite Plugs have been plac Unknown	ced, show depths & amounts used
Depths & thickness of water zones with desc Presh, Clear, Salty, Sulphur, Etc. <u>See a</u>	
Depths gas encountered:	
Type & amount of coke breeze used:	RECEIVER
Depths anodes placed: See attached log	MAR 2 1992
Depths vent pipes placed:	OIL CON. DIV.
Vent pipe perforations:	, DIST 13
Remarks:	······································

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Pee. If Federal or Indian, add Lease Number.

Received by QCD: 9/7/2021 7:47:12 AM
ELEV.									<u> </u>
DEPTH,	DRILLER'S LOG	-		RILL PI STRUCI		_	STRUCT		DEPTH TOP O ANODE
1 · 5	NO 7 BLOW DEELS		E	1	R	E	1	R	
5.10			·						
10.15									
15.20 5	AND				<b> </b>			<u> </u>	
25-25		··	<u>`</u>		<u> </u>	·		└ <u>─</u> ──	6
3-30									<b>*</b>
35-40									
40-45									
N.S.SO	<u></u>	<u> </u>							<u> </u>
50-55		<u> </u>	<u>├</u>	<u></u>					
60-65		<u> </u>							1
65-20		ĺ							
70-25									
25.80									<b>_</b>
80-85									
8.5-90									<u> </u>
90-95									
100-1AS SA	ALE W/SAND JR	Nelas							
115-110		· ·							
110-115									·
145.120									
120-128								<u> </u>	
3=-125									
135-140	,								
140+145									
145.150									<u> </u>
150-155	1	_		•				. <u></u>	
140-14 1 19									
165-190									
120-125									<b> </b>
125-180	, 	<b>  </b>							
18-185 ···									
19.195	· · · · · · · · · · · · · · · · · · ·						10		
195-200				]			_lo		
2007205	<u></u>						3.90		ļ
210-215						10-	4.30	-,	
	,			I	t	1.9.0	4.20		L

WELL:	TEXACO INC. 1. LOE "O" FROGR	AL WELL NO		LINE:_					
	SEC. 23 TWP. 29	V RGE. Ja W	_ co£	AN J	ARN	STA'		s m	FX
ELEV	FT: ROTARY_	3 PO FT:	CABLE	TOOL	·	F1	: CASI	NG	
GROUNDBE	D: DEPTH <u>380</u> рт.	DIA. <u>6 3/4</u> N	. GAB _		<b>_ LBS</b> .	ANODES	10 1/2	X60'	<u>'co-5</u>
DEPTH,	DRILLER'S LOG			STRUC	IPE	EXPL	ORING A	NODE	DEPTH TOP O
	······		E	1	R	E		R	ANODE
220-225				<u> </u>		1.3.0	3.0		
225-275	· · · · · · · · · · · · · · · · · · ·			1			2.50		
230-230	·····			1			2.20		
	NO WATER						210		
240-245	,		<u> </u>	ļ	<u> </u>		1,50		
245.250				<b> </b>		+	a.20		
25-250	<u></u>	·····	<u> </u>		+	<u> </u>	2.20		<u> </u>
265-265				<u> </u>		+	2.61		255
26-205			1		1	1	3.40		-
270-125							2,80		265
225-280							2.10		
280-285	·····		<b>.</b>				2.10		2 25
285-290				<u> </u>	<u> </u>	<del> </del>	2,10		1000
290-295		<u> </u>		· ·			2.0		295
700:306	<u></u>					1	1.80		295
3000 22							1.40		
3/10-3/0	<u>ر من جو </u>						1.60		
316-320 SHI	946					ļ	2.20		13in
220 523							3.10		300
12(152	<u></u>	<u> </u>					2,40		3.20
TJONTES ZEL-JHO SP	NO				1		1.60		3.30
242 340							1,60		
345-250							1.90		340
2500200	·····				Į	i	2.0		ļ
2662560							2.10		3.50
2417#J	· · · · · · · · · · · · · · · · · · ·				1	<b> </b>	1.65		<u> </u>
22.316		•				13.0	1.42		
121.7.90		·							
<u>, e e e e e e e e e e e e e e e e e e e</u>	ANOP!S	WATER		OKE		211-	┝Ì		<b> </b>
<u>2 "(14 ) n</u>		2.0		2:00	<u> </u>	2.40	<b>├</b> ──── <b>├</b>		<u> </u>
I." 142		2.40	1. g.,	S.A	<b> </b>	2 60			<u> </u>
	<u> </u>	8.40	1.1.1	3.60		3.40			L
	<u> </u>	I . Berman	Real <sup>®</sup>	fr	1.10	410			
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	2	JIA	S. 11	2.90		210	<b> </b>	<u> </u>	
	<u> </u>	2.80		2.90		3.40			
	10	2.80	12	2.801		2.60		<del></del>	
	GROUNDBED RES	ISTANCE: (1) VOLT	<u>12</u>		MPS			DHMS	
	,		OGROUNE	<u> </u>	OHMS	•		1	



## APPENDIX C

**Regulatory Correspondence** 

 
 From:
 Kyle Summers

 To:
 Ranee Deechilly

 Subject:
 FW: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

 Date:
 Monday, February 22, 2021 7:39:50 AM

 Attachments:
 image003.png image004.png image005.png



Kyle Summers Principal 903-821-5603 Ensolum, LLC in f

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, February 22, 2021 7:37 AM
To: Kyle Summers <ksummers@ensolum.com>
Subject: FW: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

FYI

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 19, 2021 7:05 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Hernandez, Emily, EMNRD
<<u>Emily.Hernandez@state.nm.us</u>>
Subject: RE: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

Cory,

Due to the weather this week, Enterprise will be backfilling the excavation at the Crawford GC B#1E and installing the temporary well as described below today. The well will developed today as well.

Also, this email services as a notification that Enterprise will be sampling the will on Monday, February 22, 2021 at 10:00 a.m. 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: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Wednesday, February 10, 2021 8:25 AM
To: Long, Thomas <<u>tjlong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Hernandez, Emily, EMNRD
<<u>Emily.Hernandez@state.nm.us</u>>
Subject: [EXTERNAL] RE: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

[Use caution with links/attachments] Tom,

Thank you for the status update. Please proceeded as described below and provide at least 48 hour notification prior to the collection of the ground water sample.

Thank you,

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, February 10, 2021 8:08 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Hernandez, Emily, EMNRD
<<u>Emily.Hernandez@state.nm.us</u>>
Subject: [EXT] RE: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

Cory,

Please find the attached site sketch and lab report for the Crawford GC B#1E excavation and soil stockpiles sample results. All sample results are below the NMOCD Tier I soil remediation standards. Soil stockpiles associated with soil samples SP-2 through SP-6 will be used as backfill material. Stockpile SP-1 and the other two stockpiles the east will be disposed of at a properly permitted facility. Enterprise will pump water from the excavation and disposed of it at a properly permitted facility. During backfill activities, Enterprise will install a temporary well. The temporary well will be developed and allowed to sit for at least 24 hours after development activities prior to sampling. A groundwater sample with be collected from the well and sampled for the following: 8260 BTEX (Long list), Cation, Anion, and pH, and TDS.

If you have any questions, please call or mail.

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: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Monday, February 8, 2021 8:41 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Hernandez, Emily, EMNRD
<<u>Emily.Hernandez@state.nm.us</u>>
Subject: [EXTERNAL] RE: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

[Use caution with links/attachments] Tom,

Thank you for the update, please sample the water for 8260 BTEX (Long list), Cation, Anion, and ph, and TDS.

**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: Long, Thomas <tilong@eprod.com>
Sent: Monday, February 8, 2021 8:28 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <br/>bmstone@eprod.com>; Hernandez, Emily, EMNRD
<Emily.Hernandez@state.nm.us>
Subject: [EXT] RE: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

Cory,

This email is to notify you that groundwater was observed in the excavation this morning. Upon completion of the soil remediation, Entperise will pump groundwater out of the excavation prior to backfilling. Upon backfilling the excavation, Entperise will install a temporary well/hydro punch to evaluate potential groundwater contamination. 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) <u>tjlong@eprod.com</u>



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Saturday, February 6, 2021 10:41 AM
To: Long, Thomas <<u>tjlong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Hernandez, Emily, EMNRD
<<u>Emily.Hernandez@state.nm.us</u>>
Subject: [EXTERNAL] RE: Crawford GC B#1E - Unit K Section 24 T29N R12W; 36.70820, -108.05360

[Use caution with links/attachments] Tom,

Thank you for the follow up, Please submit a C-141 no later than February 16, 2021.

OCD approves the sampling method for the stock piles that were stripped during pipeline excavation. In the event that ground water is encounter please contact me asap prior to collecting samples etc.

Thanks,

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

From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Friday, February 5, 2021 9:10 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] RE: Crawford GC B#1E - Unit N Section 24 T29N R12W; 36.70820, -108.05360

Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Crawford GC B#1E excavation on Monday, February 8, 2021 at 11:00 a.m. Also, Entperise will also be collecting soil samples from the stockpiled soil adjacent to the excavation in 50 yard volumes. The stockpile soil samples will be five-point composite samples from within the stockpiles. All soil samples will be analyzed for Methods 8021BTEX, 8015 DRO/GRO/MRO and Chlorides. If groundwater is encountered within the excavation, a groundwater sample will be collected and analyzed from Method 8260 VOC's . 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) tilong@eprod.com



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Friday, February 5, 2021 6:36 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] RE: Crawford GC B#1E - Unit N Section 24 T29N R12W; 36.70820, -108.05360

[Use caution with links/attachments] Tom, Quick follow up since this is near homes, there was no road closures or any type of EMS or anything of that nature correct?

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

From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Thursday, February 4, 2021 3:07 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] Crawford GC B#1E - Unit N Section 24 T29N R12W; 36.70820, -108.05360

Cory,

This email is a notification that Entperise had a release of natural gas and condensate on the Crawford GC B#1E pipeline on February 1, 2021. No liquids were observed on the ground surface. The release is located <u>near</u> a wash (blue line on a topo map). Enterprise determined this release reportable on February 3, 2021, due the volume of impacted subsurface soil. The release is located at Unit N Section 24 T29N R12W; 36.70820, -108.05360. I have attached a site sketch and lab report of the initial sampling. Groundwater may encountered due the required remediation at the base of the excavation. I will keep you informed as the when we will be collecting soil samples for laboratory analysis. 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



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



## APPENDIX D

## Executed C-138 Solid Waste Acceptance Form

Released to Imaging: 3/3/2022 11:26:58 AM

1625 N. French Dr., Hobbs, NM 88240 Form C-138 Descents on d Network Descents on d Net
District II 1301 W. Grand Avenue, Artesia, NM 88210 Oil Conservation Division
1301 W. Grand Avenue, Artesia, NM 88210       Oil Conservation Division         District III       1000 Rio Brazos Road, Aztec, NM 87410         1220 South St. Francis Dr.       *Surface Waste Management Facility Operator and Generator shall maintain and make this
District IV     Santa Fe, NM 87505     Santa Fe, NM 87505
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
2. Originating Site: Crawford GC B#1E
3. Location of Material (Street Address, City, State or ULSTR): Unit K Section 24 T29N R12W, San Juan County, NM; 36.70820, -108.05360
4. Source and Description of Waste: Source: Hydro excavation Spoils from a Leak from a Natural Gas Gathering Line (68 Yd5 - 2/10/2)
Source: Hydro excavation Spoils from a Leak from a Natural Gas Gathering Line (68 Yds - 2/10/2) Description: Soil impacted with Natural Gas Liquids (Condensate and Water)
Estimated Volume $50 \text{ yd}^3$ (bb) Known Volume (to be entered by the operator at the end of the haul) $10 \text{ yd}^3$ (bbls)
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Thomas Long Three Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste.         Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
🗇 MSDS Information 🔄 RCRA Hazardous Waste Analysis 📄 Process Knowledge 📄 Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
Warm 1
I, Thomas Long 2-3-2021, representative for Enterprise Products Operating authorizes <u>IEI, Inc.</u> to complete
Generator Signature the required testing/sign the Generator Waste Testing Certification.
I, <u><u>Poq</u>, representative for <u>IEI, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.</u>
5. Transporter: Riley Industrial /Seerce O. C. e.
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B Address of Facility: #49 CR 2150 Aztec, New Mexico
Address of Facility: #49 CR 2150 Aztec, New Mexico $C = L + 20$ $P = -7$ Method of Treatment and/or Disposal: $\Box$ Evaporation $\Box$ Injection $\Box$ Treating Plant $\Box$ Landfarm $\Box$ Landfill $\Box$ Other
Waste Acceptance Status: DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: floger Tington TITLE: Trons Coord DATE: 2/8/2/
IGNATURE: TELEPHONE NO.: 505-632-1782
2/3

Released to Imaging: 3/3/2022 11:26:58 AM

•



# APPENDIX E

Photographic Documentation

Closure Report Enterprise Field Services, LLC Crawford GC B#1E (02/01/21) Ensolum Project No. 05A1226137



Photograph 1 Photograph Description: View of the release point and in-process excavation activities.	
Photograph 2 Photograph Description: View of the stockpiled soils that were sampled to confirm the material was suitable to remain on Site and reuse as backfill.	
Photograph 3 Photograph Description: View of in-process excavation activities.	

#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Crawford GC B#1E (02/01/21) Ensolum Project No. 05A1226137



#### Photograph 4

Photograph Description: View of the portion of the excavation that was further excavated to facilitate water removal.



#### Photograph 5

Photograph Description: View of the excavation after initial restoration showing the temporary sampling points.





# APPENDIX F

Tables

## **ENSOLUM**

						TAB Crawford GC I SOIL ANALYT	B#1E (02/01)						
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (Feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup>	Chloride (mg/kg)
-									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
		Natural Resources on Closure Criteria (		10	NE	NE	NE	50				100	600
Composite Soil Samples Removed by Excavation and Transported to Landfarm for Disposal/Remediation													
SP-1	2.03.21	С	Stockpile	0.18	0.58	<0.15	0.73	1.5	26	100	840	970	<60
S-1	2.03.21	С	7	1.6	18	5.0	44	69	1,500	1,000	14,000	17,000	140
S-2	2.03.21	С	0 to 7	0.029	0.052	0.046	0.41	0.54	13	13	170	200	<60
						Samples Collected	rom Stockpiled S	oils					
SP-2	2.08.21	С	Stockpile	<0.019	0.075	<0.039	0.15	0.23	<3.9	<9.4	<47	ND	<60
SP-3	2.08.21	С	Stockpile	<0.017	< 0.033	<0.033	<0.067	ND	<3.3	<9.2	<46	ND	<60
SP-4	2.08.21	С	Stockpile	<0.019	< 0.039	<0.039	<0.077	ND	<3.9	<9.1	<45	ND	<59
SP-5	2.08.21	С	Stockpile	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<8.7	<44	ND	<60
SP-6	2.08.21	С	Stockpile	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.9	<50	ND	<60
						Excavation Comp	osite Soil Sample	s					
S-3	2.03.21	С	0 to 7	<0.020	<0.040	<0.040	0.13	0.13	<4.0	<9.0	<45	ND	<60
S-4	2.03.21	С	7	<0.015	<0.030	<0.030	<0.059	ND	<3.0	<9.2	<46	ND	<60
S-5	2.03.21	С	0 to 7	0.020	0.045	<0.036	0.10	0.17	<3.6	11	<50	11	<60
S-6	2.08.21	С	0 to 7	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.4	<47	ND	<60
S-7	2.08.21	С	0 to 7	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.1	<45	ND	<61
S-8	2.08.21	С	0 to 7	<0.017	< 0.035	<0.035	<0.069	ND	<3.5	18	65	83	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

<sup>1</sup> = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

# **ENSOLUM**

GROUN	TABLE 2         Crawford GC B#1E (02/01/21)         GROUNDWATER ANALYTICAL SUMMARY - DETECTED VOLATILE ORGANIC COMPOUNDS								
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Styrene <sup>A</sup> (µg/L)			
Commi	New Mexico Water Quality Control Commmission Human Health Standards		1,000 700		620	NE			
		Water Samples	s Collected from	the Excavation					
GW-1	2.12.21	<1.0	2.6	<1.0	6.8	NA			
	Water Samples Collected from the Temporary Sample Points								
TW-1	2.22.21	<1.0	<1.0	<1.0	<1.5	<1.0			
TW-2	2.22.21	<1.0	<1.0	<1.0	<1.5	1.1			

Notes:

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

<sup>A</sup> = Constituent is identified as "toxic pollutant" under 20.6.2 New Mexico Administrative Code (NMAC).

µg/L = microgram per liter

NA = Not Analyzed

NE = Not Established

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

## **ENSOLUM**

			G	ROUNDWAT	ER ANALYT		TABI vford GC B ARY - INORG	#1E (02/01		CHEMICAL P	ROPERTIES				
Sample I.D.	Sample Date	epi Lino Lino (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	(mg/r) Nitrate + Nitrite	(mg/L)	(mg/L)	Calcium Calcium (mg/L)	magnesium (mg/L)	missepod (mg/L)	Enipos s(mg/L)	Hd	) Total Dissolved Solids	Conductivity Conductivity	(mg/L Ca)
Comm Human Health	ter Quality Control mission I Standards and Supply Standards	1.6	250	600	11	NE	NE	NE	NE	NE	NE	6-9	1,000	NE	NE
	1		1		•		ollected from				1		1		
TW-1	2.22.21	<0.50	2.8	45	<1.00	<0.50	<2.5	68	11	2.4	17	7.78	290	420	169.3
TW-2	2.22.21	<0.50	3.5	59	<1.00	<0.50	<2.5	92	14	6.3	20	7.67	292	470	178.5

Notes:

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

mg/L = milligram per liter

µmhos/cm = micromhos per centimeter

Ca = Calcium

NA = Not Analyzed

NE = Not Established

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



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



February 08, 2021

**Kvle Summers ENSOLUM** 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603 FAX:

RE: Crawford GCB #1E

OrderNo.: 2102204

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/4/2021 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102204

Date Reported: 2/8/2021

CLIENT: ENSOLU	Client Sample ID: S-1					
Project: Crawford	GCB #1E			<b>Collection Dat</b>	te: 2/3/2021 4:30:00 PM	
Lab ID: 2102204-	001	Matrix: MEOH (SOI	L)	<b>Received Dat</b>	te: 2/4/2021 8:00:00 AM	
Analyses		Result	DI	Ouel Unite	DF Date Analyzed	

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	140	60		mg/Kg	20	2/4/2021 10:09:33 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	1000	480		mg/Kg	50	2/4/2021 11:11:34 AM	57910
Motor Oil Range Organics (MRO)	14000	2400		mg/Kg	50	2/4/2021 11:11:34 AM	57910
Surr: DNOP	0	70-130	S	%Rec	50	2/4/2021 11:11:34 AM	57910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	1500	65		mg/Kg	20	2/4/2021 12:14:19 PM	G75077
Surr: BFB	304	75.3-105	S	%Rec	20	2/4/2021 12:14:19 PM	G75077
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	1.6	0.016		mg/Kg	1	2/4/2021 9:30:22 AM	B75077
Toluene	18	0.65		mg/Kg	20	2/4/2021 12:14:19 PM	B75077
Ethylbenzene	5.0	0.65		mg/Kg	20	2/4/2021 12:14:19 PM	B75077
Xylenes, Total	44	1.3		mg/Kg	20	2/4/2021 12:14:19 PM	B75077
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	20	2/4/2021 12:14:19 PM	B75077

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102204

Date Reported: 2/8/2021

CLIENT	: ENSOLUM	С	lient Sample ID: S-2
<b>Project:</b>	Crawford GCB #1E		Collection Date: 2/3/2021 4:35:00 PM
Lab ID:	2102204-002	Matrix: MEOH (SOIL)	Received Date: 2/4/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	2/4/2021 10:21:57 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: mb
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	2/4/2021 11:59:52 AM	57910
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	2/4/2021 11:59:52 AM	57910
Surr: DNOP	112	70-130		%Rec	1	2/4/2021 11:59:52 AM	57910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	13	4.1		mg/Kg	1	2/4/2021 12:37:41 PM	G75077
Surr: BFB	149	75.3-105	S	%Rec	1	2/4/2021 12:37:41 PM	G75077
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	0.029	0.021		mg/Kg	1	2/4/2021 12:37:41 PM	B75077
Toluene	0.052	0.041		mg/Kg	1	2/4/2021 12:37:41 PM	B75077
Ethylbenzene	0.046	0.041		mg/Kg	1	2/4/2021 12:37:41 PM	B75077
Xylenes, Total	0.41	0.082		mg/Kg	1	2/4/2021 12:37:41 PM	B75077
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	2/4/2021 12:37:41 PM	B75077

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102204

Date Reported: 2/8/2021

CLIENT	: ENSOLUM	(	Client Sample ID: S-3
<b>Project:</b>	Crawford GCB #1E		Collection Date: 2/3/2021 4:40:00 PM
Lab ID:	2102204-003	Matrix: MEOH (SOIL)	Received Date: 2/4/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	2/4/2021 10:34:21 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/4/2021 12:47:37 PM	57910
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/4/2021 12:47:37 PM	57910
Surr: DNOP	104	70-130		%Rec	1	2/4/2021 12:47:37 PM	57910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/4/2021 1:01:08 PM	G75077
Surr: BFB	111	75.3-105	S	%Rec	1	2/4/2021 1:01:08 PM	G75077
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.020		mg/Kg	1	2/4/2021 1:01:08 PM	B75077
Toluene	ND	0.040		mg/Kg	1	2/4/2021 1:01:08 PM	B75077
Ethylbenzene	ND	0.040		mg/Kg	1	2/4/2021 1:01:08 PM	B75077
Xylenes, Total	0.13	0.080		mg/Kg	1	2/4/2021 1:01:08 PM	B75077
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/4/2021 1:01:08 PM	B75077

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102204

Date Reported: 2/8/2021

CLIENT:	ENSOLUM	С	lient Sample ID: S-4
<b>Project:</b>	Crawford GCB #1E		Collection Date: 2/3/2021 4:45:00 PM
Lab ID:	2102204-004	Matrix: MEOH (SOIL)	Received Date: 2/4/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	2/4/2021 10:46:46 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/4/2021 1:11:27 PM	57910
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/4/2021 1:11:27 PM	57910
Surr: DNOP	110	70-130		%Rec	1	2/4/2021 1:11:27 PM	57910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	2/4/2021 10:40:52 AM	G75077
Surr: BFB	106	75.3-105	S	%Rec	1	2/4/2021 10:40:52 AM	G75077
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.015		mg/Kg	1	2/4/2021 10:40:52 AM	B75077
Toluene	ND	0.030		mg/Kg	1	2/4/2021 10:40:52 AM	B75077
Ethylbenzene	ND	0.030		mg/Kg	1	2/4/2021 10:40:52 AM	B75077
Xylenes, Total	ND	0.059		mg/Kg	1	2/4/2021 10:40:52 AM	B75077
Surr: 4-Bromofluorobenzene	99.7	80-120		%Rec	1	2/4/2021 10:40:52 AM	B75077

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102204

Date Reported: 2/8/2021

CLIENT:	ENSOLUM	C	Client Sample ID: S-5
<b>Project:</b>	Crawford GCB #1E		Collection Date: 2/3/2021 4:50:00 PM
Lab ID:	2102204-005	Matrix: MEOH (SOIL)	Received Date: 2/4/2021 8:00:00 AM

Analyses	Result	RL	Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	2/4/2021 10:59:10 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst	ТОМ
Diesel Range Organics (DRO)	11	10		mg/Kg	1	2/4/2021 12:49:29 PM	57910
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/4/2021 12:49:29 PM	57910
Surr: DNOP	94.3	70-130		%Rec	1	2/4/2021 12:49:29 PM	57910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	2/4/2021 11:04:18 AM	G75077
Surr: BFB	111	75.3-105	S	%Rec	1	2/4/2021 11:04:18 AM	G75077
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.020	0.018		mg/Kg	1	2/4/2021 11:04:18 AM	B75077
Toluene	0.045	0.036		mg/Kg	1	2/4/2021 11:04:18 AM	B75077
Ethylbenzene	ND	0.036		mg/Kg	1	2/4/2021 11:04:18 AM	B75077
Xylenes, Total	0.10	0.073		mg/Kg	1	2/4/2021 11:04:18 AM	B75077
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/4/2021 11:04:18 AM	B75077

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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	NSOLUM rawford GCB #1E
Sample ID: MB-5791	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 57911 RunNo: 75086
Prep Date: 2/4/202	Analysis Date: 2/4/2021 SeqNo: 2650452 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-579	1 SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 57911 RunNo: 75086
Prep Date: 2/4/202	Analysis Date: 2/4/2021 SeqNo: 2650453 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15 1.5 15.00 0 96.8 90 110

#### 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2102204

08-Feb-21

WO#:

### Released to Imaging: 3/3/2022 11:26:58 AM

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2102204
	08-Feb-21

Client: Project:	ENSOL <sup>®</sup> Crawfor	UM d GCB #1E										
Sample ID:	MB-57853	SampTy	pe: ME	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	PBS	Batch	ID: 57	853	F	RunNo: 7	5034					
Prep Date:	2/2/2021	Analysis Da	ate: 2/	3/2021	S	SeqNo: 2	649194	Units: %Red	;			
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		8.5		10.00		84.5	70	130				
Sample ID:	LCS-57853	SampTy	pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	LCSS	Batch	ID: 57	853	F	RunNo: 7	5034					
Prep Date:	2/2/2021	Analysis Da	ate: 2/	3/2021	5	SeqNo: 2	649195	Units: %Red	;			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4.1		5.000		81.3	70	130				
Sample ID:	MB-57860	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch	ID: 57	860	F	RunNo: 7	5034					
Prep Date:	2/2/2021	Analysis Da	ate: 2/	4/2021	S	SeqNo: 2	649218	Units: %Red	;			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		9.3		10.00		92.9	70	130				
Sample ID:	LCS-57860	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	LCSS	Batch	ID: 57	860	F	RunNo: 7	5034					
Prep Date:	2/2/2021	Analysis Da	ate: 2/	4/2021	S	SeqNo: 2	649219	Units: %Red	;			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4.3		5.000		86.0	70	130				
Sample ID:	MB-57873	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch	ID: 57	873	F	RunNo: 7	5056					
Prep Date:	2/3/2021	Analysis Da	ate: 2/	4/2021	S	SeqNo: 2	649463	Units: %Red	;			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		11		10.00		114	70	130				
Sample ID:	MB-57910	SampTy	pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch	ID: 57	910	F	RunNo: 7	5056					
Prep Date:	2/4/2021	Analysis Da	ate: 2/	4/2021	ç	SeqNo: 2	649464	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	Organics (DRO)	ND	10									
-	e Organics (MRO)	ND	50									
Surr: DNOP		10		10.00		105	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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	NSOLUM rawford GCB #1E									
Sample ID: LCS-5787	3 SampType		S	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	578	73	R	unNo: 75	5056				
Prep Date: 2/3/2021	Analysis Date:	2/4	/2021	S	eqNo: 26	649465	Units: %Rec	;		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			
Sample ID: LCS-5791	0 SampType		S	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	579	10	R	unNo: 75	5056				
Prep Date: 2/4/2021	Analysis Date:	2/4	/2021	S	eqNo: 26	649963	Units: mg/K	g		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	D) 50	10	50.00	0	100	68.9	141			
Surr: DNOP	5.0		5.000		99.5	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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2102204

08-Feb-21

WO#:

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2102204	WO#:
08-Feb-21	

Client:	ENSOLUM									
Project:	Crawford GCB #1	Е								
Sample ID: mb1	Sam	oType: MBI	LK	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Bat	ch ID: G75	077	R	RunNo: <b>7</b>	5077				
Prep Date:	Analysis	Date: 2/4	/2021	S	SeqNo: 26	650151	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi		5.0								
Surr: BFB	1000		1000		105	75.3	105			
Sample ID: 2.5ug	gro Ics Samp	oType: LCS	3	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: LCSS	Bat	ch ID: G75	6077	R	RunNo: <b>7</b>	5077				
Prep Date:	Analysis	Date: 2/4	/2021	S	SeqNo: 26	650152	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi		5.0	25.00	0	109	80	120			
Surr: BFB	1200		1000		117	75.3	105			S
Sample ID: 21022	04-002ams Samp	Type: <b>MS</b>		Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: S-2	Bat	ch ID: G75	6077	R	RunNo: <b>7</b>	5077				
Prep Date:	Analysis	Date: 2/4	/2021	S	SeqNo: 26	650623	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi		5.0	25.00	13.64	109	61.3	114			
Surr: BFB	1600		1000		162	75.3	105			S
Sample ID: 21022	04-002amsd Samp	Type: <b>MSI</b>	D	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: S-2	Bat	ch ID: G75	6077	R	RunNo: <b>7</b>	5077				
Prep Date:	Analysis	Date: 2/4	/2021	S	SeqNo: 26	650624	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi		5.0	25.00	13.64	103	61.3	114	3.69	20	
Surr: BFB	1600		1000		159	75.3	105	0	0	S
Sample ID: Ics-57	856 Samp	Type: LCS	6	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: LCSS	Bat	ch ID: 578	56	R	RunNo: <b>7</b>	5077				
Prep Date: 2/2/2	021 Analysis	Date: 2/4	/2021	S	SeqNo: 26	650627	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		117	75.3	105			S
Sample ID: mb-57	856 Samp	Type: MBI	LK	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: PBS	Bat	ch ID: 578	56	R	RunNo: <b>7</b>	5077				
Prep Date: 2/2/2	021 Analysis	Date: 2/4	/2021	S	SeqNo: 26	650628	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	75.3	105			

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Released to Imaging: 3/3/2022 11:26:58 AM

Ethylbenzene

Xylenes, Total

### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

0.96

2.9

0.050

0.10

1.000

3.000

WO#:	2102204
	08-Feb-21

	ENSOLUM Crawford GCB #1	E								
Sample ID: mb1		pType: ME					8021B: Volat	tiles		
Client ID: <b>PBS</b> Prep Date:		tch ID: <b>B7</b> Date: <b>2</b> /			RunNo: <b>7</b> SeqNo: <b>2</b>		Units: <b>mg/K</b>	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorober	zene 1.0		1.000		100	80	120			
Sample ID: 100ng b	tex Ics Sam	pType: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bat	tch ID: B7	5077	F	RunNo: 7	5077				
Prep Date:	Analysis	Date: 2/	4/2021	S	SeqNo: 2	650169	Units: mg/K	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			

95.7

95.7

80

80

120

120

Surr: 4-Bromofluorobenzene	1.0	1.000		103	80	120			
Sample ID: LCS-57856	SampType:	LCS	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID:	57856	F	RunNo: 7	5077				
Prep Date: 2/2/2021	Analysis Date:	2/4/2021	S	SeqNo: 20	650691	Units: %Red	;		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120			
Sample ID: mb-57856	SampType:	MBLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID:	57856	F	RunNo: <b>7</b>	5077				
Prep Date: 2/2/2021	Analysis Date:	2/4/2021	S	SeqNo: 20	650692	Units: %Red	;		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		101	80	120			

0

0

Sample ID: 2102204-003ams	SampT	ype: MS	5	Tes	tCode: El					
Client ID: S-3	Batch	Batch ID: <b>B75077</b> RunNo: <b>75077</b>								
Prep Date:	Analysis D	ate: 2/	4/2021	5	SeqNo: 2	650693	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0.01959	93.3	76.3	120			
Toluene	1.0	0.050	1.000	0.03885	97.9	78.5	120			
Ethylbenzene	0.97	0.050	1.000	0.01815	95.5	78.1	124			
Xylenes, Total	3.0	0.10	3.000	0.1324	96.6	79.3	125			

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

L	WO#:	2102204
Laboratory, Inc.		08-Feb-21

Client:ENSOLProject:Crawfor	UM d GCB #11	Ξ								
Sample ID: 2102204-003ams	s Samp	Туре: <b>МS</b>	6	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: S-3	Bato	h ID: <b>B7</b>	5077	F	RunNo: 7	5077				
Prep Date:	Analysis I	Date: 2/	4/2021	S	SeqNo: 2	650693	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID: 2102204-003ams	<b>d</b> Samp	Type: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Sample ID: 2102204-003ams Client ID: S-3		Type: <b>MS</b> h ID: <b>B7</b>			tCode: El RunNo: 7		8021B: Volat	tiles		
		h ID: <b>B7</b>	5077	F		5077	8021B: Volat			
Client ID: S-3	Bato	h ID: <b>B7</b>	5077	F	RunNo: 7	5077			RPDLimit	Qual
Client ID: <b>S-3</b> Prep Date:	Batc Analysis I	h ID: <b>B7</b> Date: <b>2/</b>	5077 4/2021	F	RunNo: <b>7</b> : SeqNo: <b>2</b> :	5077 650694	Units: mg/k	ζg	RPDLimit 20	Qual
Client ID: <b>S-3</b> Prep Date: Analyte	Bato Analysis I Result	h ID: <b>B7</b> Date: <b>2/</b> PQL	5077 4/2021 SPK value	F S SPK Ref Val	RunNo: <b>7</b> SeqNo: <b>2</b> %REC	5077 650694 LowLimit	Units: <b>mg/k</b> HighLimit	<b>(g</b> %RPD		Qual
Client ID: <b>S-3</b> Prep Date: Analyte Benzene	Bato Analysis I Result 0.94	h ID: <b>B7</b> Date: <b>2/</b> PQL 0.025	5077 4/2021 SPK value 1.000	F S SPK Ref Val 0.01959	RunNo: <b>7</b> SeqNo: <b>2</b> <u>%REC</u> 92.0	5077 650694 LowLimit 76.3	Units: <b>mg/k</b> HighLimit 120	<b>(g</b> %RPD 1.38	20	Qual
Client ID: <b>S-3</b> Prep Date: Analyte Benzene Toluene	Bato Analysis I Result 0.94 0.99	h ID: <b>B7</b> Date: <b>2</b> / PQL 0.025 0.050	5077 4/2021 SPK value 1.000 1.000	F SPK Ref Val 0.01959 0.03885	RunNo: <b>7</b> SeqNo: <b>2</b> %REC 92.0 95.6	5077 650694 LowLimit 76.3 78.5	Units: <b>mg/K</b> HighLimit 120 120	<b>%</b> RPD 1.38 2.29	20 20	Qual

**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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Page	<u>68</u>	01	f j	12	0

Received By: Completed By: Reviewed By: Chain of Custo	ENSOLUM Juan Rojas Cheyenne Cason	Work Order Number 2/4/2021 8:00:00 AM	: 2102	2204		
Completed By: Reviewed By: Chain of Custo	100	2/4/2021 8·00·00 AM		2204		RcptNo: 1
Reviewed By:	Cheyenne Cason	LI-1/2021 0.00.00 /101			Guaran g	
Chain of Custo		2/4/2021 8:05:30 AM				
	TO	2/4/21				
	<u>ody</u>					
1. Is Chain of Cus	stody complete?		Yes	$\checkmark$	No 🗌	Not Present
2. How was the sa	ample delivered?		Cou	rier		
Log In 3 Was an attemp	t made to cool the sam	nles?	Yes		No 🗌	
o. was an attemp	t made to cool the sam		165			
4. Were all sample	es received at a temper	rature of >0° C to 6.0°C	Yes	$\checkmark$	No 🗌	NA 🗌
5. Sample(s) in pr	oper container(s)?		Yes	$\checkmark$	No 🗌	
6. Sufficient sampl	e volume for indicated	test(s)?	Yes	$\checkmark$	No 🗌	
7. Are samples (ex	cept VOA and ONG) p	properly preserved?	Yes	$\checkmark$	No 🗌	
8. Was preservativ	e added to bottles?		Yes		No 🔽	NA 🗌
9. Received at least	st 1 vial with headspace	e <1/4" for AQ VOA?	Yes		No 🗌	NA 🗹
10. Were any samp	le containers received	broken?	Yes		No 🗹	# of preserved
	match bottle labels? cies on chain of custod	tv)	Yes	$\checkmark$	No 🗌	bottles checked for pH: (<2 or >12 unless no
	rrectly identified on Cha	5.A.	Yes	~	No 🗌	Adjusted?
	analyses were requeste	•	Yes		No 🗌	
	times able to be met? tomer for authorization		Yes		No 🗌	Checked by: U 2/4
Special Handlir	ig (if applicable)					
	fied of all discrepancies	with this order?	Yes		No 🗌	NA 🗸
Person N	otified:	Date:	and a state of the state of the	itse metroscontessa	and the state of the	
By Whom	1:	Via:	eMa	ail 🗌 I	Phone 🗌 Fax	In Person
Regarding	g:		-			
Client Ins	tructions:		wanion provincia	1000-07-000-000-000000		
16. Additional rem	arks:					
17. <u>Cooler Inform</u>	ation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal D	ate	Signed By	

Page 1 of 1

<i>Received by OCD: 9/7/2021 7:</i>	47:12 AM	Page 69 of 120
HALLENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Reguest	EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)	Pavy Icey - Pavy I
4901 Tel. 5	TPH:8015D(GRO / DRO / MRO)           8081         Pesticides/8082         PCB's	Y ANY
	BTEX / MTBE / TMB's (8021)	X X X X X X X X X X X X X X X X X X X
Turn-Around Time: SAME 0.44 □ Standard & Rush 1002 Project Name: Crawford GCB#1E Project #: See Notes	Project Manager: KSwmmeS         Sampler:       Dut Kill         Sampler:       Dut Kill         Sampler:       Dut Kill         Solution       Bandulation         Monice:       Bandulation         # of Coolers:       Image:         Cooler Temp(including cF):       1.0-6.2 Dut Kill         Container       Preservative       HEAL No.         Type and #       Type       2.02 Dut	Ix     Yuz     Two Cool     Cool     Xuz       Ix     Yuz     Two Cool     Cool     Cool       Ix     Yuz     Two Cool     Cool     Cool       Ix     Yuz     Two Cool     Cool     Cool       Ix     Yuz     Two Tar     Cool     Cool       Ix     Yuz     Two Lou     Dolate     Time       Received by:     Via:     Date     Time       Received by:     Via:     Date     Time       Received by:     Via:     Date     Time
Chain-of-Custody Record Client: Ensolum, LLC Mailing Address: 6065, ED Game Suite A Aztec, NM 87410 Phone #:	Email or Fax#: XSupmerS @ cmsJum.com         QA/QC Package:         QA/QC Package:         Carloandard	

1 aging



February 08, 2021

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

RE: Crawford GCB #1E

OrderNo.: 2102205

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/4/2021 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order **2102205** Date Reported: **2/8/2021** 

CLIENT:	ENSOLUM	С	lient Sample ID: SP-1
Project:	Crawford GCB #1E		Collection Date: 2/3/2021 4:55:00 PM
Lab ID:	2102205-001	Matrix: MEOH (SOIL)	Received Date: 2/4/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	2/4/2021 11:11:35 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	ТОМ
Diesel Range Organics (DRO)	100	8.9		mg/Kg	1	2/4/2021 11:14:13 AM	57910
Motor Oil Range Organics (MRO)	840	44		mg/Kg	1	2/4/2021 11:14:13 AM	57910
Surr: DNOP	103	70-130		%Rec	1	2/4/2021 11:14:13 AM	57910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	26	15		mg/Kg	5	2/4/2021 1:24:33 PM	G75077
Surr: BFB	118	75.3-105	S	%Rec	5	2/4/2021 1:24:33 PM	G75077
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.18	0.076		mg/Kg	5	2/4/2021 1:24:33 PM	B75077
Toluene	0.58	0.15		mg/Kg	5	2/4/2021 1:24:33 PM	B75077
Ethylbenzene	ND	0.15		mg/Kg	5	2/4/2021 1:24:33 PM	B75077
Xylenes, Total	0.73	0.30		mg/Kg	5	2/4/2021 1:24:33 PM	B75077
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	5	2/4/2021 1:24:33 PM	B75077

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
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Page 1 of 6

	NSOLUM rawford GCB #1E
Sample ID: MB-5791	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 57911 RunNo: 75086
Prep Date: 2/4/202	Analysis Date: 2/4/2021 SeqNo: 2650452 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-579	I         SampType: LCS         TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 57911 RunNo: 75086
Prep Date: 2/4/202	Analysis Date: 2/4/2021 SeqNo: 2650453 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15 1.5 15.00 0 96.8 90 110

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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Page 2 of 6

2102205

08-Feb-21

WO#:
## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2102205	WO#:	
08-Feb-21		

Client: Project:	ENSOLUM Crawford GCB #1E								
Sample ID: MB-57	853 SampTyp	e: MBLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch II	D: 57853	F	RunNo: <b>75</b>	5034				
Prep Date: 2/2/2	021 Analysis Date	e: <b>2/3/2021</b>	ŝ	SeqNo: 26	649194	Units: %Rec	:		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5	10.00		84.5	70	130			
Sample ID: LCS-5	7853 SampTyp	e: LCS	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch II	D: 57853	F	RunNo: 75	5034				
Prep Date: 2/2/2	021 Analysis Date	e: <b>2/3/2021</b>	S	SeqNo: 26	649195	Units: %Rec	;		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1	5.000		81.3	70	130			
Sample ID: MB-57	860 SampTyp	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch II	atch ID: 57860 RunNo: 75034							
Prep Date: 2/2/2	021 Analysis Date	e: <b>2/4/2021</b>	S	SeqNo: <b>26</b>	649218	Units: %Rec	:		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3	10.00		92.9	70	130			
Sample ID: LCS-5	7860 SampTyp	e: LCS	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch II	D: <b>57860</b>	F	RunNo: 75	5034				
Prep Date: 2/2/2	021 Analysis Date	e: <b>2/4/2021</b>	S	SeqNo: 26	649219	Units: %Rec	;		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3	5.000		86.0	70	130			
Sample ID: MB-57	873 SampTyp	e: MBLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch II	D: 57873	F	RunNo: 75	5056				
Prep Date: 2/3/2	021 Analysis Date	e: <b>2/4/2021</b>	S	SeqNo: 26	649463	Units: %Rec	;		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11	10.00		114	70	130			
Sample ID: MB-57	910 SampTyp	e: MBLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch II	D: 57910	F	RunNo: 75	5056				
Prep Date: 2/4/2	021 Analysis Date	e: 2/4/2021	S	SeqNo: 26	649464	Units: mg/K	g		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	,	10							
Motor Oil Range Organi		50		405	70	400			
Surr: DNOP	10	10.00		105	70	130			

#### Qualifiers:

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- RL Reporting Limit

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	NSOLUM rawford GCB #1E									
Sample ID: LCS-5787	3 SampType		S	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	578	73	R	unNo: 75	5056				
Prep Date: 2/3/2021	Analysis Date:	2/4	/2021	S	eqNo: 26	649465	Units: %Rec	;		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			
Sample ID: LCS-5791	0 SampType		S	Test	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	579	10	R	unNo: 75	5056				
Prep Date: 2/4/2021	Analysis Date:	2/4	/2021	S	eqNo: 26	649963	Units: mg/K	g		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	D) 50	10	50.00	0	100	68.9	141			
Surr: DNOP	5.0		5.000		99.5	70	130			

Qualifiers:

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Page 4 of 6

2102205

08-Feb-21

WO#:

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2102205
	08-Feb-21

Client: Project:	ENSOLUM Crawford GCB #11	E							
Sample ID: mb1	Samp	Type: MBLK	-	estCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PBS	Batc	h ID: <b>G75077</b>		RunNo: 7	5077				
Prep Date:	Analysis [	Date: 2/4/2021		SeqNo: 2	650151	Units: mg/Kg	J		
Analyte	Result	PQL SPK	value SPK Ref \	al %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic		5.0							
Surr: BFB	1000		1000	105	75.3	105			
Sample ID: 2.5ug g	ro Ics Samp	Type: LCS	-	estCode: El	PA Method	8015D: Gasol	ine Rang	е	
Client ID: LCSS	Batc	h ID: G75077		RunNo: 7	5077				
Prep Date:	Analysis I	Date: 2/4/2021		SeqNo: 2	650152	Units: mg/Kg	J		
Analyte	Result	PQL SPK	value SPK Ref \	al %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO) 27	5.0 2	25.00 0	109	80	120			
Surr: BFB	1200		1000	117	75.3	105			S
Sample ID: Ics-578	56 Samp	Type: LCS	-	estCode: El	PA Method	8015D: Gasol	ine Rang	е	
Client ID: LCSS	Batc	h ID: 57856		RunNo: 7	5077				
Prep Date: 2/2/20	21 Analysis [	Date: 2/4/2021		SeqNo: 2	650627	Units: %Rec			
Analyte	Result	PQL SPK	value SPK Ref \	al %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000	117	75.3	105			S
Sample ID: mb-578	56 Samp	Type: MBLK	-	estCode: E	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PBS	Batc	h ID: 57856		RunNo: 7	5077				
Prep Date: 2/2/20	21 Analysis I	Date: 2/4/2021		SeqNo: 2	650628	Units: %Rec			
Analyte	Result	PQL SPK	value SPK Ref \	al %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000	103	75.3	105			

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- RL Reporting Limit

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2102205
	08-Feb-21

	OLUM vford GCB #1	E								
Sample ID: mb1	Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Bat	ch ID: <b>B7</b>	5077	F	RunNo: 7	5077				
Prep Date:	Analysis	Date: 2/	4/2021	5	SeqNo: 26	650166	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			
Sample ID: 100ng btex I	<b>cs</b> Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Bat	ch ID: B7	5077	F	RunNo: 7	5077				
Prep Date:	Analysis	Date: 2/	4/2021	S	SeqNo: 26	650169	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID: LCS-57856	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bat	ch ID: 57	856	F	RunNo: 7	5077				
Prep Date: 2/2/2021	Analysis	Date: 2/	4/2021	5	SeqNo: 26	650691	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID: mb-57856	Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Bat	ch ID: 57	856	F	RunNo: <b>7</b>	5077				
Prep Date: 2/2/2021	Analysis	Date: 2/	4/2021	S	SeqNo: 20	650692	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

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- 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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ANAL	RONMENTAL YSIS Ratory	Hall Environmental Alb TEL: 505-345-3973 Website: clients.ha	490 uquerq 5 FAX:	l Haw ue, NM 505-3-	kins NE 4 87109 <b>Sa</b> 45-4107	mple Log-In Check List
Client Name:	ENSOLUM	Work Order Number	2102	205		RcptNo: 1
Received By:	Juan Rojas	2/4/2021 8:00:00 AM			flanding.	B
Completed By:	Cheyenne Cason	2/4/2021 8:12:18 AM				
Reviewed By:	TO	2/11/21				
Chain of Cus	tody					
1. Is Chain of C	ustody complete?		Yes	~	No	Not Present
2. How was the	sample delivered?		<u>Cour</u>	ier		
Log In 3. Was an atterr	npt made to cool the samp	ples?	Yes	✓	No	NA 🗌
4. Were all samp	ples received at a tempera	ature of >0° C to 6.0°C	Yes	✓	No 🗌	
5. Sample(s) in I	proper container(s)?		Yes	✓	No 🗌	l
<ol><li>Sufficient sam</li></ol>	ple volume for indicated t	est(s)?	Yes	$\checkmark$	No 🗌	
7. Are samples (	except VOA and ONG) pr	operly preserved?	Yes	$\checkmark$	No 🗌	
3. Was preserva	tive added to bottles?		Yes		No 🗹	NA 🗌
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗌	NA 🔽
0. Were any san	nple containers received l	proken?	Yes		No 🔽	
	ork match bottle labels? ancies on chain of custody	()	Yes	✓	No 🗌	# of preserved bottles checked for pH: (<2 or >12 unless noted)
	correctly identified on Cha		Yes	$\checkmark$	No 🗌	Adjusted?
3. Is it clear what	t analyses were requested	1?	Yes	$\checkmark$	No 🗌	14
	ng times able to be met? ustomer for authorization.	)	Yes	$\checkmark$	No 🗌	Checked by: M 2/4/
pecial Handl	ing (if applicable)					
5. Was client no	tified of all discrepancies	with this order?	Yes		No	NA 🗹
Person	Notified:	Date:	anan menyery	nekoavo		R <sup>e</sup>
By Who Regardi Client Ir	p	Via: [	_ eMa	iil 🗌	] Phone 🔲 Fa	x 🗌 In Person
16. Additional rei	P					
17. <u>Cooler Infor</u> Cooler No	mation	Seal Intact Seal No S Yes	Seal Da	ate	Signed By	

Page 1 of 1

*Received by OCD: 9/7/2021 7:47:12 AM* 

<i>Received by OCD: 9/7/2021 7</i>	47:12 AM		Page 78 of 120
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> B260 (VOA) B270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)	3	Date     Time     Remarks:     PM-TOM     LONg     (EP Pol)       2/3/21     18/L     SAME ON     Pay     Key-     RB27300       Date     Time     Non     AFE-     NS3346       2/u()2i     8.60     Non     AFE-     NS3346       This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
4901 Tel.	ТРН:8015D(GRO / DRO / MRO)	6 1	Remarks: SAMEOAY possibility. Any st
Turn-Around Time: SAME DAY Standard D(Rush 10240 Project Name: Crawford 6C B#1E Project #: Project #:	Project Manager: KSummers         Sampler: KSummers         Sampler: Row         Image: Sampler: Row         Sampler: Row         Sampler: Row         Image: Row         Sampler: Row         Sampler: Row         Sampler: Row         Sampler: Row         Image: Row         Sampler: Row         Sampler: Row         Sampler: Row         Sampler: Row         Sampler: Row         Row         Report         Container         Type and #         Type         Type		Received by: Via: Date Time Rer Received by: Via: Date Time Rer Received by: Via: Date Time Sto Contracted to other accredited laboratories. This serves as notice of this poss
Client: Client: Ensolum U.C. Mailing Address: 606 Si Rid Grande Suited Actor NM 87410 SPhone #:	Conservation       Conservation         Conservation       Conservation	5 2591	Date:     Time:     Relinquished by:       23/3/1     18/L     Received by:       23/3/1     18/L     Received by:       Date:     Time:     Relinquished by:       13/5/L     18/L     Received by:       13/5/L     18/L     18/L       13/5/L     18/L     18/L       16/L     0.0 v.4v.       17     19/L       16     0.0 v.4v.       17     19/L       16     0.0 v.4v.       17     10 v.4v.       18     10 v.4v.       19/L     10 v.4v.       16     10 v.4v.       17     10 v.4v.

S



February 11, 2021

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

February 11, 20.

RE: Crawford G CB #1E

OrderNo.: 2102430

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/9/2021 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM	Client Sample ID: S-6
<b>Project:</b>	Crawford G CB #1E	Collection Date: 2/8/2021 9:00:00 AM
Lab ID:	2102430-001	Matrix: MEOH (SOIL) Received Date: 2/9/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	2/9/2021 11:30:16 AM	57998
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	2/9/2021 12:18:54 PM	B75172
Surr: BFB	96.5	70-130	%Rec	1	2/9/2021 12:18:54 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/9/2021 11:59:59 AM	57993
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/9/2021 11:59:59 AM	57993
Surr: DNOP	117	70-130	%Rec	1	2/9/2021 11:59:59 AM	57993
EPA METHOD 8260B: VOLATILES SHOP					Analyst	: JMR
Benzene	ND	0.018	mg/Kg	1	2/9/2021 12:18:54 PM	A75172
Toluene	ND	0.035	mg/Kg	1	2/9/2021 12:18:54 PM	A75172
Ethylbenzene	ND	0.035	mg/Kg	1	2/9/2021 12:18:54 PM	A75172
Xylenes, Total	ND	0.070	mg/Kg	1	2/9/2021 12:18:54 PM	A75172
Surr: 1,2-Dichloroethane-d4	77.9	70-130	%Rec	1	2/9/2021 12:18:54 PM	A75172
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	2/9/2021 12:18:54 PM	A75172
Surr: Dibromofluoromethane	101	70-130	%Rec	1	2/9/2021 12:18:54 PM	A75172
Surr: Toluene-d8	99.1	70-130	%Rec	1	2/9/2021 12:18:54 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM	Cl	lient Sample ID: S-7
<b>Project:</b>	Crawford G CB #1E		Collection Date: 2/8/2021 9:05:00 AM
Lab ID:	2102430-002	Matrix: MEOH (SOIL)	<b>Received Date:</b> 2/9/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	61	mg/Kg	20	2/9/2021 11:42:41 AM	57998
EPA METHOD 8015D MOD: GASOLINE RANGI	Ξ				Analys	t: JMR
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	2/9/2021 12:47:25 PM	B75172
Surr: BFB	99.2	70-130	%Rec	1	2/9/2021 12:47:25 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/9/2021 12:09:47 PM	57993
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/9/2021 12:09:47 PM	57993
Surr: DNOP	111	70-130	%Rec	1	2/9/2021 12:09:47 PM	57993
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analys	t: JMR
Benzene	ND	0.021	mg/Kg	1	2/9/2021 12:47:25 PM	A75172
Toluene	ND	0.042	mg/Kg	1	2/9/2021 12:47:25 PM	A75172
Ethylbenzene	ND	0.042	mg/Kg	1	2/9/2021 12:47:25 PM	A75172
Xylenes, Total	ND	0.084	mg/Kg	1	2/9/2021 12:47:25 PM	A75172
Surr: 1,2-Dichloroethane-d4	79.3	70-130	%Rec	1	2/9/2021 12:47:25 PM	A75172
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	2/9/2021 12:47:25 PM	A75172
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	2/9/2021 12:47:25 PM	A75172
Surr: Toluene-d8	100	70-130	%Rec	1	2/9/2021 12:47:25 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	ENSOLUM	Client Sample ID: S-8
<b>Project:</b>	Crawford G CB #1E	Collection Date: 2/8/2021 9:10:00 AM
Lab ID:	2102430-003	Matrix: MEOH (SOIL) Received Date: 2/9/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	2/9/2021 11:55:05 AM	57998
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	2/9/2021 1:16:04 PM	B75172
Surr: BFB	96.8	70-130	%Rec	1	2/9/2021 1:16:04 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst	: mb
Diesel Range Organics (DRO)	18	9.7	mg/Kg	1	2/9/2021 12:19:37 PM	57993
Motor Oil Range Organics (MRO)	65	48	mg/Kg	1	2/9/2021 12:19:37 PM	57993
Surr: DNOP	120	70-130	%Rec	1	2/9/2021 12:19:37 PM	57993
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.017	mg/Kg	1	2/9/2021 1:16:04 PM	A75172
Toluene	ND	0.035	mg/Kg	1	2/9/2021 1:16:04 PM	A75172
Ethylbenzene	ND	0.035	mg/Kg	1	2/9/2021 1:16:04 PM	A75172
Xylenes, Total	ND	0.069	mg/Kg	1	2/9/2021 1:16:04 PM	A75172
Surr: 1,2-Dichloroethane-d4	76.9	70-130	%Rec	1	2/9/2021 1:16:04 PM	A75172
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	2/9/2021 1:16:04 PM	A75172
Surr: Dibromofluoromethane	101	70-130	%Rec	1	2/9/2021 1:16:04 PM	A75172
Surr: Toluene-d8	97.9	70-130	%Rec	1	2/9/2021 1:16:04 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM	Client Sample ID: SP-2
<b>Project:</b>	Crawford G CB #1E	Collection Date: 2/8/2021 9:15:00 AM
Lab ID:	2102430-004	Matrix: MEOH (SOIL) Received Date: 2/9/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	2/9/2021 12:07:29 PM	57998
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	2/9/2021 1:44:48 PM	B75172
Surr: BFB	94.6	70-130	%Rec	1	2/9/2021 1:44:48 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/9/2021 12:29:38 PM	57993
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/9/2021 12:29:38 PM	57993
Surr: DNOP	110	70-130	%Rec	1	2/9/2021 12:29:38 PM	57993
EPA METHOD 8260B: VOLATILES SHOR	RT LIST				Analyst	: JMR
Benzene	ND	0.019	mg/Kg	1	2/9/2021 1:44:48 PM	A75172
Toluene	0.075	0.039	mg/Kg	1	2/9/2021 1:44:48 PM	A75172
Ethylbenzene	ND	0.039	mg/Kg	1	2/9/2021 1:44:48 PM	A75172
Xylenes, Total	0.15	0.077	mg/Kg	1	2/9/2021 1:44:48 PM	A75172
Surr: 1,2-Dichloroethane-d4	84.1	70-130	%Rec	1	2/9/2021 1:44:48 PM	A75172
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	2/9/2021 1:44:48 PM	A75172
Surr: Dibromofluoromethane	98.2	70-130	%Rec	1	2/9/2021 1:44:48 PM	A75172
Surr: Toluene-d8	88.4	70-130	%Rec	1	2/9/2021 1:44:48 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM		C	Client Sample ID: SP-3
<b>Project:</b>	Crawford G CB #1E			Collection Date: 2/8/2021 9:20:00 AM
Lab ID:	2102430-005	Matrix:	MEOH (SOIL)	<b>Received Date:</b> 2/9/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	2/9/2021 12:19:53 PM	57998
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analys	t: JMR
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	2/9/2021 2:13:30 PM	B75172
Surr: BFB	96.2	70-130	%Rec	1	2/9/2021 2:13:30 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/9/2021 12:39:40 PM	57993
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/9/2021 12:39:40 PM	57993
Surr: DNOP	118	70-130	%Rec	1	2/9/2021 12:39:40 PM	57993
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analys	t: JMR
Benzene	ND	0.017	mg/Kg	1	2/9/2021 2:13:30 PM	A75172
Toluene	ND	0.033	mg/Kg	1	2/9/2021 2:13:30 PM	A75172
Ethylbenzene	ND	0.033	mg/Kg	1	2/9/2021 2:13:30 PM	A75172
Xylenes, Total	ND	0.067	mg/Kg	1	2/9/2021 2:13:30 PM	A75172
Surr: 1,2-Dichloroethane-d4	80.8	70-130	%Rec	1	2/9/2021 2:13:30 PM	A75172
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	2/9/2021 2:13:30 PM	A75172
Surr: Dibromofluoromethane	98.3	70-130	%Rec	1	2/9/2021 2:13:30 PM	A75172
Surr: Toluene-d8	91.8	70-130	%Rec	1	2/9/2021 2:13:30 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM	Client Sample ID: SP-4				
<b>Project:</b>	Crawford G CB #1E	Collection Date: 2/8/2021 9:25:00 AM				
Lab ID:	2102430-006	Matrix: MEOH (SOIL) Received Date: 2/9/2021 7:50:00 AM				

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: VP
Chloride	ND	59	mg/Kg	20	2/9/2021 12:32:18 PM	57998
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	t: JMR
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	2/9/2021 2:42:15 PM	B75172
Surr: BFB	95.5	70-130	%Rec	1	2/9/2021 2:42:15 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/9/2021 12:49:42 PM	57993
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/9/2021 12:49:42 PM	57993
Surr: DNOP	113	70-130	%Rec	1	2/9/2021 12:49:42 PM	57993
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	t: JMR
Benzene	ND	0.019	mg/Kg	1	2/9/2021 2:42:15 PM	A75172
Toluene	ND	0.039	mg/Kg	1	2/9/2021 2:42:15 PM	A75172
Ethylbenzene	ND	0.039	mg/Kg	1	2/9/2021 2:42:15 PM	A75172
Xylenes, Total	ND	0.077	mg/Kg	1	2/9/2021 2:42:15 PM	A75172
Surr: 1,2-Dichloroethane-d4	77.6	70-130	%Rec	1	2/9/2021 2:42:15 PM	A75172
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	2/9/2021 2:42:15 PM	A75172
Surr: Dibromofluoromethane	98.3	70-130	%Rec	1	2/9/2021 2:42:15 PM	A75172
Surr: Toluene-d8	96.2	70-130	%Rec	1	2/9/2021 2:42:15 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM	Client Sample ID: SP-5
<b>Project:</b>	Crawford G CB #1E	Collection Date: 2/8/2021 9:30:00 AM
Lab ID:	2102430-007	Matrix: MEOH (SOIL) Received Date: 2/9/2021 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	2/9/2021 12:44:42 PM	57998
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	2/9/2021 3:10:48 PM	B75172
Surr: BFB	96.9	70-130	%Rec	1	2/9/2021 3:10:48 PM	B75172
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	2/9/2021 12:59:46 PM	57993
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/9/2021 12:59:46 PM	57993
Surr: DNOP	111	70-130	%Rec	1	2/9/2021 12:59:46 PM	57993
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR
Benzene	ND	0.021	mg/Kg	1	2/9/2021 3:10:48 PM	A75172
Toluene	ND	0.042	mg/Kg	1	2/9/2021 3:10:48 PM	A75172
Ethylbenzene	ND	0.042	mg/Kg	1	2/9/2021 3:10:48 PM	A75172
Xylenes, Total	ND	0.084	mg/Kg	1	2/9/2021 3:10:48 PM	A75172
Surr: 1,2-Dichloroethane-d4	80.9	70-130	%Rec	1	2/9/2021 3:10:48 PM	A75172
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	2/9/2021 3:10:48 PM	A75172
Surr: Dibromofluoromethane	94.6	70-130	%Rec	1	2/9/2021 3:10:48 PM	A75172
Surr: Toluene-d8	92.2	70-130	%Rec	1	2/9/2021 3:10:48 PM	A75172

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

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2102430

Date Reported: 2/11/2021

CLIENT	: ENSOLUM	(	Client Sample ID: SP-6				
<b>Project:</b>	Crawford G CB #1E		Collection Date: 2/8/2021 9:35:00 AM				
Lab ID:	2102430-008	Matrix: MEOH (SOIL)	<b>Received Date:</b> 2/9/2021 7:50:00 AM				

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	2/9/2021 12:57:08 PM	57998
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	2/9/2021 3:39:17 PM	B75172
Surr: BFB	94.9	70-130	%Rec	1	2/9/2021 3:39:17 PM	B75172
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/9/2021 1:09:48 PM	57993
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/9/2021 1:09:48 PM	57993
Surr: DNOP	115	70-130	%Rec	1	2/9/2021 1:09:48 PM	57993
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.020	mg/Kg	1	2/9/2021 3:39:17 PM	A75172
Toluene	ND	0.041	mg/Kg	1	2/9/2021 3:39:17 PM	A75172
Ethylbenzene	ND	0.041	mg/Kg	1	2/9/2021 3:39:17 PM	A75172
Xylenes, Total	ND	0.081	mg/Kg	1	2/9/2021 3:39:17 PM	A75172
Surr: 1,2-Dichloroethane-d4	80.8	70-130	%Rec	1	2/9/2021 3:39:17 PM	A75172
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	2/9/2021 3:39:17 PM	A75172
Surr: Dibromofluoromethane	95.7	70-130	%Rec	1	2/9/2021 3:39:17 PM	A75172
Surr: Toluene-d8	95.0	70-130	%Rec	1	2/9/2021 3:39:17 PM	A75172

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

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 range due to dilution or matrix

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- P Sample pH Not In Range
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Page 8 of 13

Client: Project:	ENSOLUM Crawford G CB #1	E								
Sample ID: MB-57	7998 Samp	Type: MBL	.K	Tes	tCode: EF	PA Method	300.0: Anion	5		
Client ID: PBS	Bato	h ID: 5799	8	F	RunNo: <b>7</b>	5158				
Prep Date: 2/9/2	Analysis	Date: 2/9/	2021	S	SeqNo: 26	654773	Units: mg/K	g		
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-5	57998 Samp	Type: LCS		Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID: LCSS	Bato	h ID: 5799	8	F	RunNo: <b>7</b>	5158				
Prep Date: 2/9/2	Analysis	Date: 2/9/	2021	S	SeqNo: 26	654774	Units: mg/K	g		
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

#### Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2102430

11-Feb-21

WO#:

**ENSOLUM** 

**Client:** 

## **OC SUMMARY REPORT** H

	WO#:	2102430
Hall Environmental Analysis Laboratory, Inc.		11-Feb-21

Project: Crawford	d G CB #1E								
Sample ID: MB-57993	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 57	993	F	RunNo: 75	5160				
Prep Date: 2/9/2021	Analysis Date: 2/	9/2021	S	SeqNo: 26	653623	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	10	10.00		101	70	130			
Sample ID: LCS-57993	SampType: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 57	993	F	RunNo: 75	5160				
Prep Date: 2/9/2021	Analysis Date: 2/	9/2021	5	SeqNo: 26	653625	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50 10	50.00	0	101	68.9	141			
Surr: DNOP	5.0	5.000		99.4	70	130			
Sample ID: 2102430-001AMS	SampType: MS	6	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-6	Batch ID: 57	993	F	RunNo: 75	5160				
Prep Date: 2/9/2021	Analysis Date: 2/	9/2021	S	SeqNo: 26	653809	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 9.1	45.70	3.852	87.4	15	184			
Surr: DNOP	4.5	4.570		99.0	70	130			
Sample ID: 2102430-001AMS	D SampType: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-6	Batch ID: 57	993	F	RunNo: 75	5160				
Prep Date: 2/9/2021	Analysis Date: 2/	9/2021	S	SeqNo: 26	654918	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50 9.8	48.78	3.852	95.5	15	184	14.1	23.9	
Surr: DNOP	5.2	4.878		106	70	130	0	0	

#### Qualifiers:

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- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

1

WO#:	2102430
	11-Feb-21

**Client: ENSOLUM Project:** Crawford G CB #1E

Sample ID: 100ng Ics	Samp	Туре: <b>LC</b>	S	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batc	h ID: <b>A7</b>	5172	F	unNo: 7	5172				
Prep Date:	Analysis [	Date: 2/	9/2021	S	eqNo: 2	654164	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.39		0.5000		77.8	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.2	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.7	70	130			
Surr: Toluene-d8	0.46		0.5000		91.6	70	130			
Sample ID: mb1	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: <b>A7</b>	5172	RunNo: <b>75172</b>						
Prep Date:	Analysis [	Date: 2/	9/2021	S	eqNo: 20	654165	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.37		0.5000		74.7	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.3	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.4	70	130			
Surr: Toluene-d8	0.50		0.5000		99.9	70	130			
Sample ID: 2102430-003ams	Samp	Type: MS	6	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: S-8	Batc	h ID: <b>A7</b>	5172	F	unNo: 7	5172				
Prep Date:	Analysis [	Date: 2/	9/2021	5	eqNo: 2	654839	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.017	0.6940	0	98.7	67.9	137			
Toluene	0.66	0.035	0.6940	0	94.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.28		0.3470		79.9	70	130			
Surr: 4-Bromofluorobenzene	0.32		0.3470		93.2	70	130			
Surr: Dibromofluoromethane	0.32		0.3470		90.9	70	130			
Surr: Toluene-d8	0.33		0.3470		94.6	70	130			
Sample ID: 2102430-003amsd	Samp	Туре: <b>М</b>	SD	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: S-8	Batc	h ID: <b>A7</b>	5172	F	tunNo: 7	5172				
Prep Date:	Analysis [	Date: 2/	9/2021	S	eqNo: 2	654840	Units: mg/K	g		
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.017	0.6940	0	92.6	67.9	137	6.40	20	
Toluene	0.61	0.035	0.6940	0	88.0	70	130	7.34	20	

#### **Qualifiers:**

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- % Recovery outside of range due to dilution or matrix S

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- Е Value above quantitation range
- J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit

Page 11 of 13

	WO#:	2102430
lall Environmental Analysis Laboratory, Inc.		11-Feb-21

Client:	ENSOLUM
Project:	Crawford G CB #1E

Sample ID: 2102430-003amsd	SampType: MSD			Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: S-8	Batch	n ID: <b>A7</b>	5172	F	unNo: 7	5172				
Prep Date:	Analysis D	ate: 2/	9/2021	S	eqNo: 2	654840	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.31		0.3470		88.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.33		0.3470		96.1	70	130	0	0	
Surr: Dibromofluoromethane	0.32		0.3470		91.2	70	130	0	0	
Surr: Toluene-d8	0.31		0.3470		88.9	70	130	0	0	

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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
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# QC SUMMARY REPORT Hall

SUMMARI REFURI	WO#:	2102430	
l Environmental Analysis Laboratory, Inc.		11-Feb-21	

	ENSOLUM Crawford G CB	#1E								
Sample ID: 2.5ug gr	<b>o ics</b> Sa	mpType: L	cs	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	E	Batch ID: B	75172	F	RunNo: 7	5172				
Prep Date:	Analys	sis Date: 2	2/9/2021	S	SeqNo: 20	654176	Units: mg/k	٢g		
Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 2	.1 5.0	25.00	0	85.4	70	130			
Surr: BFB	48	60	500.0		96.0	70	130			
Sample ID: mb1	Sa	mpType: <b>N</b>	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	E	Batch ID: B	75172	F	RunNo: 7	5172				
Prep Date:	Analys	sis Date: 2	2/9/2021	S	SeqNo: 20	654177	Units: mg/k	٢g		
Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) N	D 5.0	)							
Surr: BFB	47	0	500.0		93.6	70	130			
Sample ID: 2102430	•001ams Sa	mpType: <b>N</b>	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: S-6	E	Batch ID: B	75172	F	RunNo: 7	5172				
Prep Date:	Analys	sis Date: 2	2/9/2021	S	SeqNo: 20	654861	Units: mg/k	٢g		
Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 1	5 3.5	5 17.56	0	83.0	49.2	122			
Surr: BFB	33	60	351.1		93.1	70	130			
Sample ID: 2102430	•001amsd Sa	mpType: <b>N</b>	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: S-6	E	Batch ID: B	75172	F	RunNo: 7	5172				
Prep Date:	Analys	sis Date:	2/9/2021	S	SeqNo: 20	654862	Units: mg/k	٢g		
Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 1	4 3.5	5 17.56	0	80.6	49.2	122	2.88	20	
Surr: BFB	33	80	351.1		92.6	70	130	0	0	

#### Qualifiers:

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- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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ANAL	ENVIRONMENTAL ANALYSIS LABORATORY		ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345 s.hallenvironmenta	ns NE 87109 <b>Sar</b> -4107	Sample Log-In Check L		
Client Name:	ENSOLUM	Work Order Num	ber: 2102430		RcptNo: 1		
Received By:	Desiree Dominguez	2/9/2021 7:50:00 A	М	TA			
Completed By:	Cheyenne Cason	2/9/2021 8:04:41 A	М				
Reviewed By:	σī	15 90 50					
Chain of Cus	tody						
<ol> <li>Is Chain of Cι</li> </ol>	istody complete?		Yes 🗹	No 🗌	Not Present		
2. How was the s	sample delivered?		<u>Courier</u>				
Log In 3. Was an attem	pt made to cool the sample	es?	Yes ✔	No 🗌			
4. Were all samp	les received at a temperat	ure of >0° C to 6.0°C	Yes 🔽	No 🗌			
5. Sample(s) in p	roper container(s)?		Yes 🔽	No 🗌			
6. Sufficient samp	ble volume for indicated tes	st(s)?	Yes 🗹	No 🗌			
7. Are samples (e	except VOA and ONG) pro	perly preserved?	Yes 🔽	No 🗌			
8. Was preservat	ve added to bottles?		Yes	No 🗹	NA 🗌		
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹		
10. Were any sam	ple containers received bro	oken?	Yes	No 🗹	# of preserved		
	k match bottle labels? ncies on chain of custody)		Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12 upless not		
	prrectly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?		
	analyses were requested?		Yes 🔽	No 🗌			
	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗌	Checked by: DAD 2/9/2		
Special Handli	ng (if applicable)						
15. Was client not	fied of all discrepancies w	th this order?	Yes	No 🗌	NA 🗹		
Person N	lotified:	Date:	-				
By Whor	n:	Via:	eMail P	hone 🗌 Fax	In Person		
Regardin	-						
Client Ins	structions:		And the set of the second s		NULLAR HALTER Z NULLAR FOR ANEXA CONDUCTOR MILLION		
16. Additional rem	arks:						
17. <u>Cooler Inform</u> Cooler No	nation Temp ⁰C Condition	Seal Intact Seal No	Soal Data	Cigned D.			
1		Yes	Seal Date	Signed By			

Page 1 of 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY		87109 J J	5 Fax 505-345-4107 / 0	Analysis Request	(tu	esdA	S0'	) MO <sup>3</sup>	or s	018 (0) (0)	y 83 الار 1 (AO) ime	EDB (M 2 HA5 3 A72F 3 7, T, IC 3 7, T, IC 3 2 C (V 2 1 C ( 2 1	3 3 3 1	×	X						n-Tom Long		
		01 Ha	el. 505				d Q	2808	3/S	əbia	oitee	9 1808	3							_	d and	P P P	Any sub-
		49	Ĕ								-	/ X∃T8 08:H9T		X	χ					_	Remarks:		ssibility.
Turn-Around Time: 100 名 South	ä	Crawford C CB MIE	Project #:	0 5A 1336	Project Manager:	K SUMMEIS		: CDAPONT:	🖉 Yes 🛛 No		Cooler Temp(including cF): 3. 9 + 0.2 2 4.1 (°C)	# Tvpe	(and Cel	X 200 X	1 Cool 003 K						$U_{13}$ Date line $2/s/_{21}$ 1234	Received by: Via: Date Time	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.
Chain-of-Custody Record		Mailing Address: 606 5 R. O Grande	Suit A 87410	Phone #:	email or Fax#:	ige:	Candard  Cevel 4 (Full Validation)	:uo	D NELAC D Other	EDD (Type)		Date Time Matrix Sample Name	200	2/2 905 2 5-7	8-5 5 016 8/e						) 1234	Date: Time: Relinquished by: $2/8/\gamma_{11}$ [363 $\mathcal{N}$ $\mathcal{N}$ $\mathcal{N}$	If necessary, samples submitted to Hall Environmental may be subc

Receive			' <b>D: 9</b> //	7/202 V	217	47:	-12 AM																	P	ige 95 o	
FNVTRONMENT	AROPATOP			R					-										4 3	100				1.	30	I report.
Z		2	Albuquerque, NM 87109	07							24	- 1	1			Ť	-									Inalytica
Z			NM 8	505-345-4107	st	(11		11262	<u>, ,)</u>			D letoT				- 1	2			_	2					on the a
à			gue,	5-34	Request	(10	10344/1		200			2) 0728 2) 0528			-		ų. –	34		-				300	Q	otated o
	ANALYSTS		www.riaiieitviioiiiitieitai.coiii ins NE - Albuquerque, NM 8	Fax 5(	sis R	-				_		v) 0566			- 51					-		1		Je .	0	early n
	j X		Albu	ű	Analysis	70	S '≯Od	40 <sup>5</sup> '	٤, ٦			CI, F, T		x	×	x	X					2		130	520	ill be cl
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		in State	4									) XЭТ8 08:НЧТ	K.	X	X	X	X							Remarks:		ssibility.
						()	.008/ 01				102260 10	/ \]	ø	X	يک	X	X			_	-			Å.	0	this pos
100 5 5 001	10-6-01		BIP SI				5		0		(C))	HEAL No.	204	305	000	001	008							Date Time 2/8/2(1)3√	Date Time	as r
N	sh		S	~			10	itrol	No No			e 2	0	0	)			æ		-				- 2	°	
Time:	⊠ Rush		Ford Q			ger:	SUMM	O DA	Tes		(including CF):	Preservative Type	Cool.	Cool	Col	Cor 1.	Coul							Via:	Via: Couriel	credited laborato
Turn-Around T	□ Standard	Project Name:	Claut	Project #:		Project Manag	K	Sampler:	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #		(										Received by:	Received by:	intracted to other ac
Chain-of-Custody Record	son dlc		Skid Grande	87410			Level 4 (Full Validation)	mpliance				Sample Name	58-3	SP-3	SP-4	SP-S	SA-6							An	hed by: NATAP	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.
1-of-C	Ersclan		S: 606	A 8				□ Az C	□ Other			Matrix	5	5	5	Z	$\sim$							Relinquished by:	Relinquished by:	/, samples su
Chain			Mailing Address:	Suit	;#:	email or Fax#:	QA/QC Package:	Accreditation:	LAC	EDD (Type)		Time	915	920	326	930	935							Time:	Time:   803	If necessary
	Client:		Mailin	~1	Phone #:	email	QA/QC	Accred				Date	3/3	3/2	3/2	3/x	3/8							Date: NS	Date: $\frac{\gamma_{sh}}{1}$	



February 16, 2021

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: Crawford 6C B 1E

OrderNo.: 2102696

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/13/2021 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2102696

Date Reported: 2/16/2021

CLIENT: ENSOLUM		Client Sample ID: GW-1										
Project: Crawford 6C B 1E		Collection Date: 2/12/2021 9:00:00 AM										
Lab ID: 2102696-001	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 2/13/2021 9:40:00 AM										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analyst:	BRM						
Benzene	ND	1.0	µg/L	1	2/15/2021 12:52:42 PM	C75306						
Toluene	2.6	1.0	µg/L	1	2/15/2021 12:52:42 PM	C75306						
Ethylbenzene	ND	1.0	µg/L	1	2/15/2021 12:52:42 PM	C75306						
Xylenes, Total	6.8	1.5	µg/L	1	2/15/2021 12:52:42 PM	C75306						
Surr: 1,2-Dichloroethane-d4	108 7	0-130	%Rec	1	2/15/2021 12:52:42 PM	C75306						
Surr: 4-Bromofluorobenzene	103 7	0-130	%Rec	1	2/15/2021 12:52:42 PM	C75306						
Surr: Dibromofluoromethane	108 7	0-130	%Rec	1	2/15/2021 12:52:42 PM	C75306						
Surr: Toluene-d8	101 7	0-130	%Rec	1	2/15/2021 12:52:42 PM	C75306						

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 3

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2102696	WO#:	
16-Feb-21		

Client:ENSOLProject:Crawfor	.UM rd 6C B 1E											
Sample ID: 100ng Ics	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist			
Client ID: LCSW	Batc	h ID: <b>C7</b>	5306	F	RunNo: <b>75306</b>							
Prep Date:	Analysis [	Date: 2/	15/2021	S	SeqNo: 2	661336	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	21	1.0	20.00	0	104	70	130					
Toluene	20	1.0	20.00	0	98.1	70	130					
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130					
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130					
Surr: Dibromofluoromethane	11		10.00		111	70	130					
Surr: Toluene-d8	9.9		10.00		98.7	70	130					
Sample ID: mb         SampType: MBLK         TestCode: EPA Method 8260: Volatiles Short List												
Client ID: PBW	Batc	h ID: <b>C7</b>	5306	F	RunNo: 7	5306						
Prep Date:	Analysis [	Date: 2/	15/2021	S	SeqNo: 2	661337	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										
Xylenes, Total	ND	1.5										
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130					
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130					
Surr: Dibromofluoromethane	10		10.00		101	70	130					
Surr: Toluene-d8	10		10.00		103	70	130					
Sample ID: 2102696-001a m	s Samp	Гуре: М	6	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist			
Client ID: GW-1	Batc	h ID: <b>C7</b>	5306	F	RunNo: 7	5306						
Prep Date:	Analysis [	Date: 2/	15/2021	S	SeqNo: 2	661338	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	21	1.0	20.00	0.4710	102	70	130					
Toluene	21	1.0	20.00	2.624	94.3	70	130					
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130					
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130					
Surr: Dibromofluoromethane	10		10.00		104	70	130					
Surr: Toluene-d8	9.4		10.00		93.8	70	130					
Sample ID: 2102696-001a m	sd Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist			
Client ID: GW-1	Batc	h ID: <b>C7</b>	5306	F	RunNo: 7	5306						
Prep Date:	Analysis [	Date: 2/	15/2021	S	SeqNo: 2	661339	Units: µg/L					
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	21	1.0	20.00	0.4710	102	70	130	0.259	20			
Toluene	21	1.0	20.00	2.624	93.8	70	130	0.480	20			

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 range due to dilution or matrix

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 3

B Analyte detected in the associated Method Blank

	WO#:	2102696
ll Environmental Analysis Laboratory, Inc.		16-Feb-21

Client:	ENSOLUM
Project:	Crawford 6C B 1E

Sample ID: 2102696-001a msd       SampType: MSD       TestCode: EPA Method 8260: Volatiles Short List										
Client ID: GW-1	Batch	n ID: <b>C7</b>	5306	F	RunNo: 7	5306				
Prep Date:	Analysis D	ate: 2/	15/2021	S	SeqNo: 2	661339	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		109	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		96.6	70	130	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 3

Released to Imaging: 3/3/2022 11:26:58 AM

Page	100	of	120
I use	100	<b>V</b>	

ANALY	Client Name: ENSOLUM		ntal Analysis Labor 4901 Hawki Albuquerque, NM 8 975 FAX: 505-345 s.hallenvironmenta	ns NE 87109 <b>San</b> -4107	Sample Log-In Check Li				
Client Name:	ENSOLUM	Work Order Num	per: 2102696		RcptNo:	1			
Received By:	Isaiah Ortiz	2/13/2021 9:40:00 /	AM	ILC	X				
Completed By:	Isaiah Ortiz	2/13/2021 10:01:41	AM	InC	X				
Reviewed By:	(n) 02/13/202	1							
Chain of Cus	<u>tody</u>								
1. Is Chain of Cu	stody complete?		Yes 🗸	No 🗌	Not Present				
2. How was the	sample delivered?		Courier						
Log In									
<ol> <li>vvas an attem</li> </ol>	pt made to cool the sar	nples?	Yes 🗹	No 🗌	NA				
4. Were all samp	les received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗌					
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌					
6. Sufficient sam	ple volume for indicated	test(s)?	Yes 🔽	No 🗌					
7. Are samples (e	except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌					
8. Was preservat	ive added to bottles?		Yes	No 🗹	NA 🗌				
9. Received at lea	ast 1 vial with headspac	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🔽	JO			
10. Were any sam	ple containers received	I broken?	Yes 🗌	No 🗹	# of preserved	2/13			
	rk match bottle labels? ncies on chain of custo	dy)	Yes 🗹	No 🗌	bottles checked for pH: (<2 or >	2 1 (S 12 unless noted			
	orrectly identified on Ch		Yes 🗹	No 🗌	Adjusted?				
13. Is it clear what	analyses were request	ed?	Yes 🗹	No 🗌					
	g times able to be met stomer for authorization		Yes 🔽	No 🗌	Checked by:				
Special Handli	ng (if applicable)								
15. Was client not	ified of all discrepancie	s with this order?	Yes	No 🗌	NA 🔽				
Person I	Notified:	Date:		PARAMETERS AND					
By Who	m:	Via:	*	Phone 🗌 Fax	In Person				
Regardin	- /	ner men er men mellen som an en en en en en en men men men er en er e	AANSA MININA MANAGONA MANAGONA ANG ANG ANG ANG ANG ANG ANG ANG ANG A						
	structions:								
16. Additional ren	narks:								
17. <u>Cooler Inforr</u> Cooler No	nation Temp ⁰C Conditio 1.4 Good	n Seal Intact Seal No Not Present	Seal Date	Signed By					

Page 1 of 1

Received by OCD: 9/7/2021 7.	47:12 AM					Page 101 of 120
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(fnəzdA\tnəzər9) r	V-im92) 0728 Total Coliform				22
SIS SIS vironr vironr Fax Vsis		(AOV) 0928				101 m 2010
L ≤ E	<sup>3</sup> ' NO <sup>5</sup> ' FO⁴' SO <sup>4</sup>					S S S S S S S S S S S S S S S S S S S
HALL ANAL www.ha kins NE - 345-3975		RCRA 8 Meta				A L
H/ AR wv vkins vkins 345-	0 or 8270SIMS	EDB (Method		_		H H - H -
4901 Hawkins NE	es/8082 PCB's					A Sub-ora
4901 Tel.						arks: Por
	(1208) 2.8MT \ 3	вты \ хэта	X			Remarks: $P_{\phi}$ $A_{I}$ possibility. Ar
102 Sang BRush 2-15-31	ger: Summers CD: Apont; BYes DNo	1.1.4.5-0 (°C) vative Z102 b G6	100			Date Time Doratories. This serves as notice of this
nd Time: 11		S: ( חף(including cF): ן י Preservative t Type	Hacl			Viat Via:
Turn-Around Time: □ Standard Project Name: C/のい fure Project #: 0579133	Project Manager:	# of Coolers: ( Cooler Temp <sub>(induding cr)</sub> : Container Preservat Type and # Type	N			Received by: Received by:
Chain-of-Custody Record T: Ensolum, LLC, a Address: Lob SR'D Crande o: + A 87410 e#:	□ Level 4 (Full Validation) □ Az Compliance □ Other	Matrix Sample Name	W GW-1			Time:Relinquished by:Received by:ViatDateTimeRemarks: $Pm - T cm Lange11000000000110000000001100000000011000000000110000000001100000000019000000000190000000001000000000010000000000100000000001000000000010000000000100000000001000000000010000000000100000000001000000000010000000$
ain-o			0.26			Time: Re 1107 Time: Re 1904
Client:       Client:       Mailing Address:       Society       Bhone #:		Date Time	6 61/2			Date: Time: Date: Time: Date: Time: Date: If neces:

Page 101 of 120



February 26, 2021

**Kyle Summers ENSOLUM** 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603 FAX

RE: Crawford GCB #1E

OrderNo.: 2102967

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/23/2021 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 2102967

Date Reported: 2/26/2021

		• /						
CLIENT:	ENSOLUM		Cl	ient Sa	ample ID	: T\	W-1	
Project:	Crawford GCB #1E		(	Collect	ion Date	: 2/2	22/2021 10:20:00 AM	
Lab ID:	2102967-001	Matrix: AQUEC	DUS	Recei	ved Date	: 2/2	23/2021 7:35:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst:	ЈМТ
Fluoride		ND	0.50		mg/L	5	2/23/2021 10:13:17 AM	R75491
Chloride		2.8	2.5		mg/L	5	2/23/2021 10:13:17 AM	R75491
Nitrogen	, Nitrite (As N)	ND	0.50		mg/L	5	2/23/2021 10:13:17 AM	R75491
Bromide		ND	0.50		mg/L	5	2/23/2021 10:13:17 AM	R75491
-	, Nitrate (As N)	ND	0.50		mg/L	5	2/23/2021 10:13:17 AM	
	orus, Orthophosphate (As P)	ND	2.5		mg/L	5	2/23/2021 10:13:17 AM	
Sulfate		45	2.5		mg/L	5	2/23/2021 10:13:17 AM	R75491
SM2510E	3: SPECIFIC CONDUCTANCE						Analyst:	JRR
Conducti	ivity	420	10		µmhos/c	1	2/25/2021 11:44:46 AM	R75552
SM2320E	B: ALKALINITY						Analyst:	JRR
Bicarbon	ate (As CaCO3)	169.3	20.00		mg/L Ca	1	2/25/2021 11:44:46 AM	R75552
Carbona	te (As CaCO3)	ND	2.000		mg/L Ca	1	2/25/2021 11:44:46 AM	R75552
Total Alk	alinity (as CaCO3)	169.3	20.00		mg/L Ca	1	2/25/2021 11:44:46 AM	R75552
SM25400	MOD: TOTAL DISSOLVED SOI	LIDS					Analyst:	МН
Total Dis	solved Solids	290	40.0	D	mg/L	1	2/24/2021 3:14:00 PM	58287
SM4500-	H+B / 9040C: PH						Analyst:	JRR
рН		7.78		Н	pH units	1	2/25/2021 11:44:46 AM	R75552
EPA MET	HOD 200.7: METALS						Analyst:	ELS
Calcium		68	1.0		mg/L	1	2/24/2021 9:39:32 AM	58277
Magnesi	um	11	1.0		mg/L	1	2/24/2021 9:39:32 AM	58277
Potassiu	m	2.4	1.0		mg/L	1	2/24/2021 9:39:32 AM	58277
Sodium		17	1.0		mg/L	1	2/24/2021 9:39:32 AM	58277
EPA MET	HOD 8260B: VOLATILES						Analyst:	JMR
Benzene	•	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
Toluene		ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
Ethylben	zene	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
Methyl te	ert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
1,2,4-Tri	methylbenzene	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
	methylbenzene	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
	loroethane (EDC)	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
	omoethane (EDB)	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
Naphtha		ND	2.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
•	naphthalene	ND	4.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
	naphthalene	ND	4.0		µg/L	1	2/23/2021 5:38:55 PM	R75496
Acetone		ND	10		µg/L	1	2/23/2021 5:38:55 PM	R75496
Bromobe	enzene	ND	1.0		µg/L	1	2/23/2021 5:38:55 PM	R75496

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

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 15

**Analytical Report** Lab Order 2102967

Date R	eported:	2/26/2021

Hall Environmental Analys	is Laboratory, Inc	•			Lab Order <b>2102967</b> Date Reported: <b>2/26/20</b>	21
CLIENT:ENSOLUMProject:Crawford GCB #1ELab ID:2102967-001	Matrix: AQUEOUS	W-1 22/2021 10:20:00 AM 23/2021 7:35:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	JMR
Bromodichloromethane	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
Bromoform	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
Bromomethane	ND	3.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
2-Butanone	ND	10	µg/L	1	2/23/2021 5:38:55 PM	R75496
Carbon disulfide	ND	10	µg/L	1	2/23/2021 5:38:55 PM	R75496
Carbon Tetrachloride	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Chlorobenzene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Chloroethane	ND	2.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Chloroform	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Chloromethane	ND	3.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
2-Chlorotoluene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
4-Chlorotoluene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
cis-1,2-DCE	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Dibromochloromethane	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
Dibromomethane	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
1,2-Dichlorobenzene	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
1,3-Dichlorobenzene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,4-Dichlorobenzene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Dichlorodifluoromethane	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,1-Dichloroethane	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,1-Dichloroethene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,2-Dichloropropane	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,3-Dichloropropane	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
2,2-Dichloropropane	ND	2.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
1,1-Dichloropropene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Hexachlorobutadiene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
2-Hexanone	ND	1.0			2/23/2021 5:38:55 PM	R75496
Isopropylbenzene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
			μg/L	1		
4-Isopropyltoluene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
4-Methyl-2-pentanone	ND	10	µg/L	1	2/23/2021 5:38:55 PM	R75496
Methylene Chloride	ND	3.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
n-Butylbenzene	ND	3.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
n-Propylbenzene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
sec-Butylbenzene	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496
Styrene	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
tert-Butylbenzene	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	2/23/2021 5:38:55 PM	R75496

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

**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

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

Page 2 of 15

Hall Environmental	Analysis Laboratory, Inc.
	J

Lab Order 2102967

Date Reported: 2/26/2021

CLIENT: ENSOLUM	Client Sample ID: TW-1							
<b>Project:</b> Crawford GCB #1E	Collection Date: 2/22/2021 10:20:00 AM							
Lab ID: 2102967-001	Matrix: AQUEOUS	5	<b>Received Dat</b>	<b>e:</b> 2/	23/2021 7:35:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8260B: VOLATILES					Analyst	JMR		
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
trans-1,2-DCE	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
1,1,1-Trichloroethane	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
1,1,2-Trichloroethane	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
Trichloroethene (TCE)	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
Trichlorofluoromethane	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
1,2,3-Trichloropropane	ND	2.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
Vinyl chloride	ND	1.0	µg/L	1	2/23/2021 5:38:55 PM	R75496		
Xylenes, Total	ND	1.5	µg/L	1	2/23/2021 5:38:55 PM	R75496		
Surr: 1,2-Dichloroethane-d4	86.4	70-130	%Rec	1	2/23/2021 5:38:55 PM	R75496		
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	2/23/2021 5:38:55 PM	R75496		
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	2/23/2021 5:38:55 PM	R75496		
Surr: Toluene-d8	102	70-130	%Rec	1	2/23/2021 5:38:55 PM	R75496		

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

**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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report
Lab Order 2102967

Hall Environmental Analysis Laboratory, Inc.	Date F
----------------------------------------------	--------

Date Reported: 2/26/2021

	-	-					-	
CLIENT:	ENSOLUM		Cl	ient Sa	ample ID	<b>:</b> TV	W-2	
<b>Project:</b>	Crawford GCB #1E		(	Collect	ion Date	: 2/2	22/2021 10:50:00 AM	
Lab ID:	2102967-002	Matrix: AQUE	OUS	Receiv	ved Date	: 2/2	23/2021 7:35:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst:	ЈМТ
Fluoride		ND	0.50		mg/L	5	2/23/2021 10:37:59 AM	R75491
Chloride		3.5	2.5		mg/L	5	2/23/2021 10:37:59 AM	R75491
Nitrogen,	, Nitrite (As N)	ND	0.50		mg/L	5	2/23/2021 10:37:59 AM	R75491
Bromide		ND	0.50		mg/L	5	2/23/2021 10:37:59 AM	R75491
-	, Nitrate (As N)	ND	0.50		mg/L	5	2/23/2021 10:37:59 AM	R75491
	orus, Orthophosphate (As P)	ND	2.5		mg/L	5	2/23/2021 10:37:59 AM	
Sulfate		59	2.5		mg/L	5	2/23/2021 10:37:59 AM	R75491
SM2510B	B: SPECIFIC CONDUCTANCE						Analyst:	JRR
Conducti	ivity	470	10		µmhos/c	1	2/25/2021 12:04:44 PM	R75552
SM2320B	B: ALKALINITY						Analyst:	JRR
Bicarbon	ate (As CaCO3)	178.5	20.00		mg/L Ca	1	2/25/2021 12:04:44 PM	R75552
Carbonat	te (As CaCO3)	ND	2.000		mg/L Ca		2/25/2021 12:04:44 PM	R75552
Total Alk	alinity (as CaCO3)	178.5	20.00		mg/L Ca	1	2/25/2021 12:04:44 PM	R75552
SM2540C	MOD: TOTAL DISSOLVED SO	LIDS					Analyst:	МН
Total Dis	solved Solids	292	40.0	D	mg/L	1	2/24/2021 3:14:00 PM	58287
SM4500-I	H+B / 9040C: PH						Analyst:	JRR
pН		7.67		н	pH units	1	2/25/2021 12:04:44 PM	R75552
EPA MET	HOD 200.7: METALS						Analyst:	ELS
Calcium		92	1.0		mg/L	1	2/24/2021 9:42:31 AM	58277
Magnesi	um	14	1.0		mg/L	1	2/24/2021 9:42:31 AM	58277
Potassiu	m	6.3	1.0		mg/L	1	2/24/2021 9:42:31 AM	58277
Sodium		20	1.0		mg/L	1	2/24/2021 9:42:31 AM	58277
EPA MET	HOD 8260B: VOLATILES						Analyst:	JMR
Benzene		ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
Toluene		ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
Ethylben	zene	ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
	ert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
	methylbenzene	ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
	methylbenzene	ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
	loroethane (EDC)	ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
	omoethane (EDB)	ND	1.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
Naphthal		ND	2.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
-	naphthalene	ND	4.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
-	naphthalene	ND	4.0		µg/L	1	2/23/2021 6:07:41 PM	R75496
Acetone Bromobe	enzene	ND ND	10 1.0		μg/L μg/L	1 1	2/23/2021 6:07:41 PM 2/23/2021 6:07:41 PM	R75496 R75496
DIOIIIODE			1.0		µg/∟	1	212012021 0.01.41 1911	111 3490

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

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

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**Analytical Report** Lab Order 2102967

Date Reported:	2/26/2021

Hall Environmental Analysi	is Laboratory, Inc	•			Lab Order 2102967 Date Reported: 2/26/20	21		
CLIENT: ENSOLUM Project: Crawford GCB #1E Lab ID: 2102967-002	Client Sample ID: TW-2           Collection Date: 2/22/2021 10:50:00 AM           Matrix: AQUEOUS         Received Date: 2/23/2021 7:35:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8260B: VOLATILES					Analyst	JMR		
Bromodichloromethane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Bromoform	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Bromomethane	ND	3.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
2-Butanone	ND	10	μg/L	1	2/23/2021 6:07:41 PM	R75496		
Carbon disulfide	ND	10	μg/L	1	2/23/2021 6:07:41 PM	R75496		
Carbon Tetrachloride	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496		
Chlorobenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Chloroethane	ND	2.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Chloroform	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Chloromethane	ND	3.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
2-Chlorotoluene	ND	1.0	µg/∟	1	2/23/2021 6:07:41 PM	R75496		
4-Chlorotoluene	ND	1.0	µg/∟	1	2/23/2021 6:07:41 PM	R75496		
cis-1,2-DCE	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496		
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496		
1,2-Dibromo-3-chloropropane	ND	2.0		1	2/23/2021 6:07:41 PM	R75496		
Dibromochloromethane	ND	1.0	μg/L		2/23/2021 6:07:41 PM	R75490		
Dibromomethane	ND		μg/L	1	2/23/2021 6:07:41 PM	R75496		
		1.0	μg/L	1				
1,2-Dichlorobenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,3-Dichlorobenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,4-Dichlorobenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Dichlorodifluoromethane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,1-Dichloroethane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,1-Dichloroethene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,2-Dichloropropane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,3-Dichloropropane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
2,2-Dichloropropane	ND	2.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,1-Dichloropropene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Hexachlorobutadiene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
2-Hexanone	ND	10	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Isopropylbenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
4-Isopropyltoluene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
4-Methyl-2-pentanone	ND	10	μg/L	1	2/23/2021 6:07:41 PM	R75496		
Methylene Chloride	ND	3.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
n-Butylbenzene	ND	3.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
n-Propylbenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
sec-Butylbenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
Styrene	1.1	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
tert-Butylbenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496		
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496		

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

**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

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits Р

Sample pH Not In Range RL Reporting Limit

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Lab Order 2102967

Date Reported: 2/26/2021

CLIENT: ENSOLUM	Client Sample ID: TW-2						
<b>Project:</b> Crawford GCB #1E	<b>Collection Date:</b> 2/22/2021 10:50:00 AM						
Lab ID: 2102967-002	Matrix: AQUEOUS		<b>Received Dat</b>	<b>:e:</b> 2/	23/2021 7:35:00 AM		
Analyses	Result	RL	Qual Units	DF	<b>Date Analyzed</b>	Batch	
EPA METHOD 8260B: VOLATILES					Analyst	JMR	
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	2/23/2021 6:07:41 PM	R75496	
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496	
trans-1,2-DCE	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496	
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
1,1,1-Trichloroethane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
1,1,2-Trichloroethane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
Trichloroethene (TCE)	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
Trichlorofluoromethane	ND	1.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
1,2,3-Trichloropropane	ND	2.0	µg/L	1	2/23/2021 6:07:41 PM	R75496	
Vinyl chloride	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496	
Xylenes, Total	ND	1.5	μg/L	1	2/23/2021 6:07:41 PM	R75496	
Surr: 1,2-Dichloroethane-d4	91.2	70-130	%Rec	1	2/23/2021 6:07:41 PM	R75496	
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	2/23/2021 6:07:41 PM	R75496	
Surr: Dibromofluoromethane	96.2	70-130	%Rec	1	2/23/2021 6:07:41 PM	R75496	
Surr: Toluene-d8	102	70-130	%Rec	1	2/23/2021 6:07:41 PM	R75496	

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

**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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# **OC SUMMARY REPORT**

<b>C</b>	Hall Environmental Analysis Laboratory, Inc.							
Hall Env	26-Feb-21							
Client:	ENSOLUM							
Project:	Crawford GCB #1E							

	a 002 112									
Sample ID: MB-58277	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 200.7: Metals					
Client ID: PBW	Batch	ID: 58	277	F	RunNo: 7	5498				
Prep Date: 2/23/2021	Analysis D	ate: 2/	24/2021	ç	SeqNo: 2	668198	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								
Sample ID: LLLCS-58277	SampType: LCSLL TestCode: EPA Method 200.7: Metals									
Client ID: BatchQC	Batch	ID: 58	277	F	RunNo: <b>7</b>	5498				
Prep Date: 2/23/2021	Analysis Da	ate: <b>2/</b>	24/2021	S	SeqNo: 2	668200	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	104	50	150			
Magnesium	ND	1.0	0.5000	0	102	50	150			
Potassium	ND	1.0	0.5000	0	98.2	50	150			
Sodium	ND	1.0	0.5000	0	106	50	150			
Sample ID: LCS-58277	SampT	ype: LC	S	Tes	tCode: E	PA Method	200.7: Metals			
Client ID: LCSW	Batch	ID: 58	277	F	RunNo: <b>7</b>	5498				
Prep Date: 2/23/2021	Analysis Da	ate: <b>2/</b>	24/2021	S	SeqNo: 2	668202	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	101	85	115			
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	52	1.0	50.00	0	104	85	115			
Sodium	52	1.0	50.00	0	104	85	115			

### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

.

# **OC SUMMARY REPORT** H

	WO#:	2102967
Iall Environmental Analysis Laboratory, Inc.		26-Feb-21

Client:	ENSOLUM
Project:	Crawford GCB #1E

-										
Sample ID: MB-MH	SampT	ype: <b>m</b> t	olk	Test	tCode: E	PA Method	300.0: Anions	5		
Client ID: PBW	Batc	h ID: <b>R7</b>	5491	R	RunNo: 7	5491				
Prep Date:	Analysis E	Date: 2/	23/2021	S	SeqNo: 2	667957	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Sample ID: LCS	SampT	ype: Ics	5	Tes	tCode: E	5				
Client ID: LCSW	Batc	h ID: <b>R7</b>	5491	R	5491					
Prep Date:	Analysis E	Date: 2/	23/2021	S	SeqNo: 2	667958	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.2	90	110			
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	95.9	90	110			
Bromide	2.4	0.10	2.500	0	95.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.6	90	110			
			F 000	0			440			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.6	90	110			
Phosphorus, Orthophosphate (As P Sulfate	4.7 9.7	0.50 0.50	5.000	0	93.6 97.2	90 90	110 110			

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2102967
	26-Feb-21

Client:ENSOLUMProject:Crawford GCB #1E

Sample ID: 100ng Ics	SampT	ype: LC	S	TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch	ID: <b>R7</b>	5496	RunNo: <b>75496</b>						
Prep Date:	Analysis D	ate: <b>2/</b>	23/2021	S	eqNo: 2	668162	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.7	70	130			
Foluene	19	1.0	20.00	0	96.5	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
,1-Dichloroethene	18	1.0	20.00	0	89.6	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	78.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.5	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.7	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			
Sample ID: <b>mb1</b>	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: <b>R7</b>	5496	R	unNo: 7	5496				
Prep Date:	Analysis D	ate: 2/	23/2021	S	eqNo: 2	668163	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
oluene	ND	1.0								
thylbenzene	ND	1.0								
lethyl tert-butyl ether (MTBE)	ND	1.0								
,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
,2-Dibromoethane (EDB)	ND	1.0								
laphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
-Methylnaphthalene	ND	4.0								
cetone	ND	10								
Iromobenzene	ND	1.0								
romodichloromethane	ND	1.0								
Bromoform	ND	1.0								
romomethane	ND	3.0								
-Butanone	ND	10								
arbon disulfide	ND	10								
arbon Tetrachloride	ND	1.0								
hlorobenzene	ND	1.0								
chloroethane	ND	2.0								
Chloroform	ND	1.0								
chloromethane	ND	3.0								

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
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- S % Recovery outside of range due to dilution or matrix

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- E Value above quantitation range
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### **OC SUMMARY REPORT** 1

	WO#:	2102967
Hall Environmental Analysis Laboratory, Inc.		26-Feb-21

Client:	ENSOLUM
Project:	Crawford GCB #1E
Sample ID: mb1	SampType: MBLK
Client ID: PBW	Batch ID: R75496

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	ID: <b>R7</b>	5496	F	RunNo: 7					
Prep Date:	Analysis D	ate: <b>2/</b> 2	23/2021	S	SeqNo: 20	668163	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								

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	WO#:	2102967
Hall Environmental Analysis Laboratory, Inc.		26-Feb-21

	ENSOLUM Crawford GCB	#1E								
Sample ID: mb1	Sa	mpType: <b>M</b>	BLK	Test	Code: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW Batch ID: R75496				R	unNo: 7	5496				
Prep Date:	Analysis Date: 2/23/2021			SeqNo: 2668163 Units: µ						
Analyte	Res	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	N	D 1.0								
Xylenes, Total	N	D 1.5								
Surr: 1,2-Dichloroethane	e-d4 8	.7	10.00		86.9	70	130			
Surr: 4-Bromofluoroben	zene	0	10.00		103	70	130			
Surr: Dibromofluoromet	nane 9	.6	10.00		95.9	70	130			
Surr: Toluene-d8		0	10.00		101	70	130			

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**ENSOLUM** 

**Client:** 

	WO#:	2102967
Hall Environmental Analysis Laboratory, Inc.		26-Feb-21

Project: Crawford	d GCB #1E										
Sample ID: Ics-1 99.5uS eC	SampT	ype: Ics TestCode: SM2510B: Specific Conductance									
Client ID: LCSW	Batch	ID: <b>R7</b>	5552	F	RunNo: 7	5552					
Prep Date:	Analysis D	Units: µmh	os/cm								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Conductivity	100	10	99.50	0	102	85	115				
Sample ID: 2102967-001B Du	<b>ip</b> SampT	ype: <b>du</b>	р	Tes	tCode: SI	M2510B: Sp	pecific Cond	uctance			
Client ID: TW-1	Batch	ID: <b>R7</b>	5552	F	RunNo: 7	5552					
Prep Date:	Analysis D	ate: 2/	25/2021	S	SeqNo: 2	670485	Units: µmh	os/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Conductivity	420	10						0.214	20		

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7.76

2102967

26-Feb-21

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WO#:

0.257

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	ENSOLUM Crawford GCB #1E											
Sample ID: 2102	967-001B Dup SampType: dup	TestCode: SM4500-H+B / 9040C: pH										
Client ID: TW-	Batch ID: R75552	RunNo: <b>75552</b>										
Prep Date:	Analysis Date: 2/25/2021	SeqNo: 2670457 Units: pH units										
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %	RPD RPDLimit Qual									

pН

Qualifiers:

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Released to Imaging: 3/3/2022 11:26:58 AM

2102967

WO#:

Hall Environmer	ntal Analysis Laborato	ory, Inc.	26-Feb-2										
Client: ENSC Project: Crawf	DLUM ord GCB #1E												
Sample ID: mb-1 alk	SampType: mblk	TestCode: SM2320B: Alkalinity											
Client ID: PBW	Batch ID: R75552	RunNo: <b>75552</b>											
Prep Date:	Analysis Date: 2/25/2021	SeqNo: 2670404 Units: mg/L CaCO3											
Analyte Total Alkalinity (as CaCO3)	ResultPQLSPK valueND20.00	SPK Ref Val %REC LowLimit HighLimit %RPD RPD	Limit Qual										
Sample ID: Ics-1 alk	SampType: Ics	TestCode: SM2320B: Alkalinity											
Client ID: LCSW	lient ID: LCSW Batch ID: R75552 RunNo: 75552												
Prep Date:	Analysis Date: 2/25/2021	SeqNo: 2670405 Units: mg/L CaCO3											
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPD	Limit Qual										
Total Alkalinity (as CaCO3)	73.52 20.00 80.00	0 91.9 90 110											
Sample ID: 2102967-001B Dup SampType: dup TestCode: SM2320B: Alkalinity													
Client ID: TW-1	Batch ID: R75552	RunNo: <b>75552</b>											
Prep Date:	Analysis Date: 2/25/2021	SeqNo: 2670407 Units: mg/L CaCO3											
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPD	Limit Qual										
Total Alkalinity (as CaCO3)	169.2 20.00	0.0945	20										
Sample ID: MB-2 ALk	SampType: mblk	TestCode: SM2320B: Alkalinity											
Client ID: PBW	Batch ID: R75552	RunNo: <b>75552</b>											
Prep Date:	Analysis Date: 2/25/2021	SeqNo: 2670427 Units: mg/L CaCO3											
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPD	Limit Qual										
Total Alkalinity (as CaCO3)	ND 20.00												
Sample ID: LCS-2 ALk	SampType: Ics	TestCode: SM2320B: Alkalinity											
Client ID: LCSW	Batch ID: R75552	RunNo: <b>75552</b>											
Prep Date:	Analysis Date: 2/25/2021	SeqNo: 2670428 Units: mg/L CaCO3											
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPD	Limit Qual										
Total Alkalinity (as CaCO3)	73.60 20.00 80.00	0 92.0 90 110											

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	SOLUM wford GCB #1E												
Sample ID: MB-58287     SampType: MBLK     TestCode: SM2540C MOD: Total Dissolved Solids													
Client ID: PBW													
Prep Date: 2/23/2021	Prep Date: 2/23/2021 Analysis Date: 2/24/2021 SeqNo: 2668560 Units: mg/L												
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit 0	Qual									
Total Dissolved Solids	ND 20.0												
Sample ID: LCS-58287	SampType: LCS	TestCode: SM2540C M	OD: Total Dissolved Solids										
Client ID: LCSW	Batch ID: 58287	RunNo: 75511											
Prep Date: 2/23/2021	Prep Date: 2/23/2021 Analysis Date: 2/24/2021 SeqNo: 2668561 Units: mg/L												
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit 0	Qual									
Total Dissolved Solids	1020 20.0 1000	0 102 80	120										

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2102967

26-Feb-21

WO#:

ived	l by OCD: 9/7	7/2021 7:4	7:12 AM						Page	118
	ANAL	ONMENT /SIS RATORY	AL	TEL	Environment A 505-345-39 bsite: clients.	4901 Ha Ibuquerque, N 75 FAX: 505-	wkins NE NM 87109 345-4107	Sar	mple Log-In Check List	
(	Client Name:	ENSOLUN	1	Work	Order Numb	er: 2102967			RcptNo: 1	
R	Received By:	Juan Roja	as	2/23/202	1 7:35:00 A	M	44	may		
С	Completed By:	Cheyenne	e Cason	2/23/202	1 8:01:47 A	М				
R	Reviewed By:	ir al	23/2	1						
C	hain of Cus	tody								
1.	Is Chain of Cu	istody comp	lete?			Yes 🗹	Ν	lo 🗌	Not Present	
2.	How was the	sample deliv	vered?			<u>Courier</u>				
1	.og In									
	Was an attem	pt made to o	cool the samp	les?		Yes 🗹	N	lo 🗌		
4.	Were all samp	les received	at a tempera	ture of >0° C to	o 6.0°C	Yes 🔽	Ν	o 🗌		
5.	Sample(s) in p	oroper conta	iner(s)?			Yes 🗹	Ν	o 🗌		
6.	Sufficient samp	ole volume f	or indicated te	est(s)?		Yes 🔽	N	o 🗌		
7.	Are samples (e	except VOA	and ONG) pro	operly preserved	1?	Yes 🗹	N	o 🗌		
8.	Was preservat	ive added to	bottles?			Yes 🗌	N	•	NA 🗌	
9.	Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ V(	)A?	Yes 🗸	No	<b>,</b> $\Box$		
	Were any sam					Yes		o 🔽		
	Does paperwor					Yes 🗹	No	<b>b</b>	# of preserved bottles checked for pH:	
	(Note discrepander) Are matrices co						N1-		(<2 or >12 unless noted) Adjusted?	
	Is it clear what					Yes ✔ Yes ✔	No		Nejuoted NC	
14.	Were all holdin (If no, notify cu	g times able	to be met?			Yes 🗹	No		Checked by: SPA 2.7	3.
	ecial Handli									
15.	Was client not	ified of all di	screpancies v	vith this order?		Yes 🗌	N	o 🗌	NA 🗹	
	Person N	Notified:	and the last is with a star of the last of sectors	and a straight is a straight of the second	Date:			louis as income.		
	By Whor	n:		an deam an a close a south that are we	Via:	eMail	Phone	Fax	In Person	
	Regardir Client Ins	ng: structions:	an Talay v daha na a a a ang ang a							
16	. Additional rem									
17.	Cooler Inform	nation								
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed	By		
	1	0.4	Good	Yes				•		

Page 1 of 1

	AALL ENVIRONMENTAL AND A ADDRESS LABORATORY		37109		Analysis Request	() () () ()	pseu V <sup>+</sup> 2v SB's	PC PC PC PC PC PC PC	10 <sup>2</sup> , 102, 102, 107, 107, 107, 107, 107, 107, 107, 107	O5 8\2: 07 01 3, 1 3, 1 3, 1 3, 1 3, 5 4 3, 2 5 3, 2 3, 2 5, 2 5, 2 5, 2 5, 2 5,	(GF 310 310 310 310 310 310 310 310 310 310	MT 251id 64thd 838 838 838 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84thd 84t	VXET VXET VXE VXE VXE VXE VXE VXE VXE VXE VXE VXE	10 85 85 85 85 80 80 80	×××	X X X X						Remarks: pm-Tum Long (EPIZOD) ASAP Pay Ley- RB2H200	New AFE- NSARTO	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.
Turn-Around Time: Ac AD	🕅 Rush	Project Name:	Cantora of the	Project #: See notes	-	Project Manager: KSummer			r: RDeechilly	On Ice:Yes / DNo	# of Coolers: i	Cooler Temp(including CF): 0.3+6.1=0.4 (°C)	Preservative	Type and # Type 2102 967	Various Various 001	Varius vorcus 002						E Ward 2	Received by: Via: Date Time	ontracted to other accredited laboratories. This serves as notice of the
Chain-of-Custody Record	of posting of the second s	Ima	Mailing Address: (6016. S. 210 Corumb Suite A	S AZTECINM STUID		email or Fax#: KSummesceensalum (Com	QA/QC Package:	S  C Standard  C Level 4 (Full Validation)	Accreditation:	NELAC      Other	EDD (Type)		:	Date Time Matrix Sample Name	appla 1020 W TW-1	2/20/21 1050 W TW-2						Prime:	Date: Time: Relinquished by: 02/22/21/18/10 Mucture	If necessary samples submitted to Hall Environmental may be subc

District I 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

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

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	46521
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	3/3/2022

Page 120 of 120 CONDITIONS

Action 46521