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

1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 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

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

Page 1 of 120

Incident ID	
District RP	
Facility ID	
Application ID	

### **Release Notification**

Responsible	Party: Enter	prise Field Serv	vices, LLC	OGRID: <b>241602</b>						
Contact Nan	ne: <b>Thomas</b>	Long		Contact Telephone: 50	5-599-2286					
Contact ema	il:tjlong@ep	rod.com		Incident # (assigned by OCD): NAPP2103923727						
Contact mai	ing address:	614 Reilly Ave,	Farmington, NN	1						
87401			T	CD 1 G						
atitude 36.			Location (		AD 83 in decimal degrees to 5 decimal place.					
atitude 36.	0821 awford GC	B#1E								
87401 atitude 36.				108.05361 (NA	s Gathering Pipeline					
87401 atitude 36.	awford GC			Site Type Natural Gas	s Gathering Pipeline					

#### 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 ☐ Yes ☐ No produced water >10,000 mg/l? 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.

ReFerred & State of New Mexico
Page 2 Oil Conservation Division

Incident ID

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 th	e 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 backs must be notified 2 days prior to liner inspection)	fill or photos of the liner integrity if applicable (Note: appropriate OCD District office								
☐ Laboratory analyses of final sampling (Note: app.	ropriate ODC District office must be notified 2 days prior to final sampling)								
Description of remediation activities									
and regulations all operators are required to report and/may endanger public health or the environment. The ashould their operations have failed to adequately invest human health or the environment. In addition, OCD accompliance with any other federal, state, or local laws a restore, reclaim, and re-vegetate the impacted surface a accordance with 19.15.29.13 NMAC including notifical Printed Name: Jon E. Fields	e and complete to the best of my knowledge and understand that pursuant to OCD rules for file certain release notifications and perform corrective actions for releases which exceptance of a C-141 report by the OCD does not relieve the operator of liability higher and remediate contamination that pose a threat to groundwater, surface water, exceptance of a C-141 report does not relieve the operator of responsibility for and/or regulations. The responsible party acknowledges they must substantially area to the conditions that existed prior to the release or their final land use in attion to the OCD when reclamation and re-vegetation are complete.  Title: Director, Environmental  Date: 9/1/7024  Telephone: (713) 381-6684								
OCD Only									
Received by:	Date:								
Closure approval by the OCD does not relieve the responsementation that poses a threat to groundwaparty of compliance with any other federal, state, or loc	onsible party of liability should their operations have failed to adequately investigate and ater, surface water, human health, or the environment nor does not relieve the responsible ral laws and/or regulations.								
Closure Approved by: Nelson Velez	Date: 03/03/2022								
Closure Approved by: Nelson Velez  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

Kyle Summers Senior Project Manager

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Table 2 – Water Analytical Summary – Volatile Organic Compounds Table 3 – Water Analytical Summary – Inorganics, Physical, and Chemical Properties

**Laboratory Data Sheets & Chain of Custody Documentation** Appendix G:



#### **CLOSURE REPORT**

Crawford GC B#1E (02/01/21) SW 1/4, 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



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 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).



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

CI	Closure Criteria for Soils Impacted by a Release								
Constituent*	Method	Limit							
Chloride	EPA 300.0 or SM4500 CI B	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							

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

#### 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.

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

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



**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® 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.



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.



- 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  $\mu$ g/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.

#### **TDS**

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.



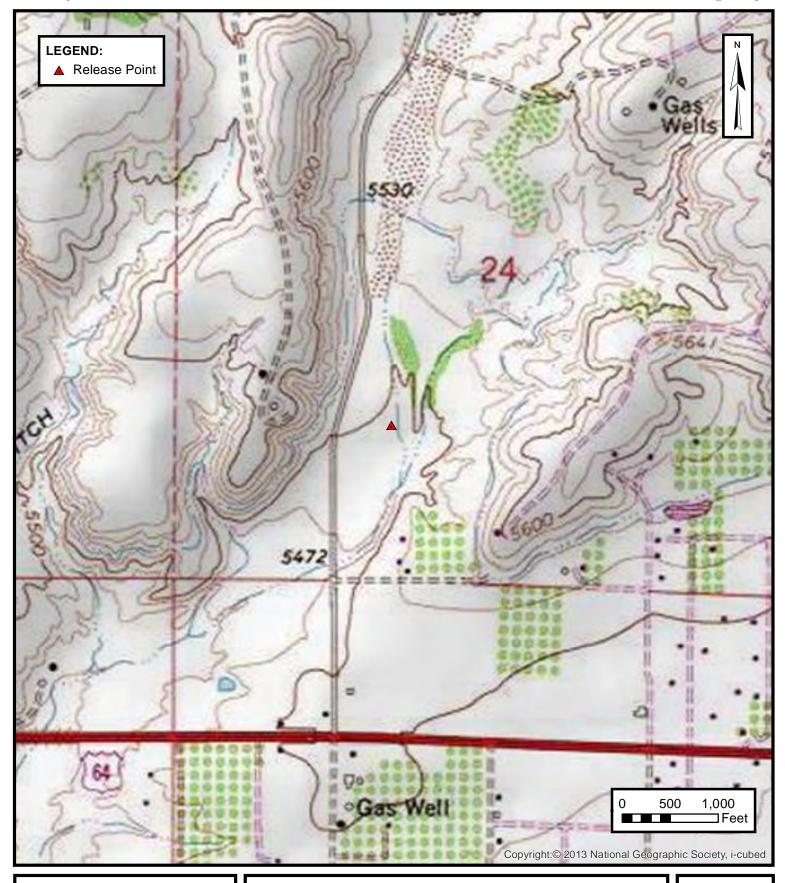
#### 10.3 Reliance

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



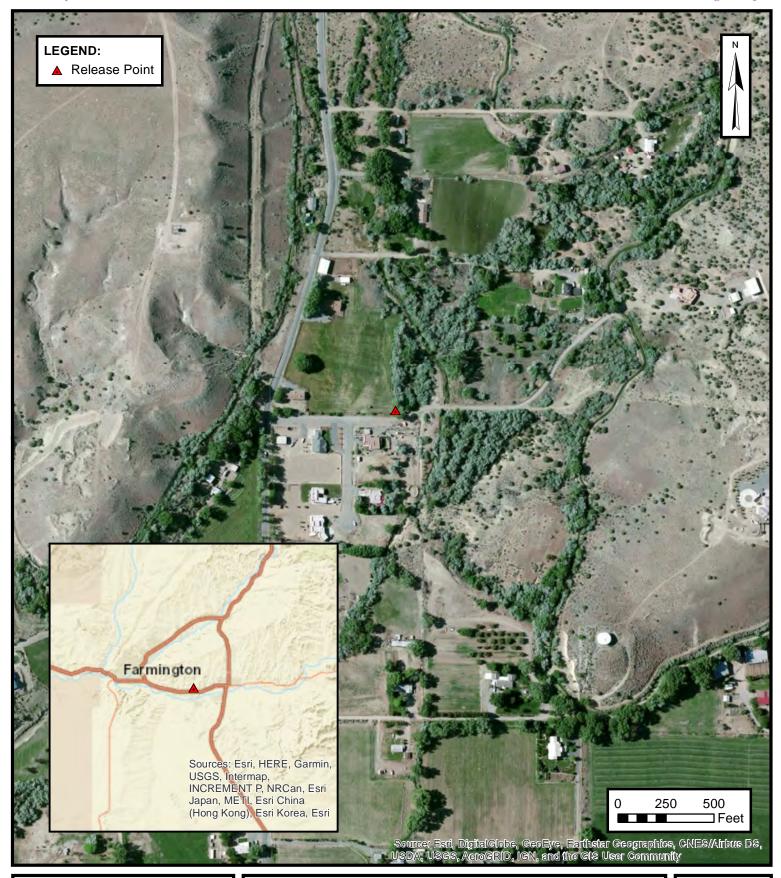


#### **TOPOGRAPHIC MAP**

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

**FIGURE** 



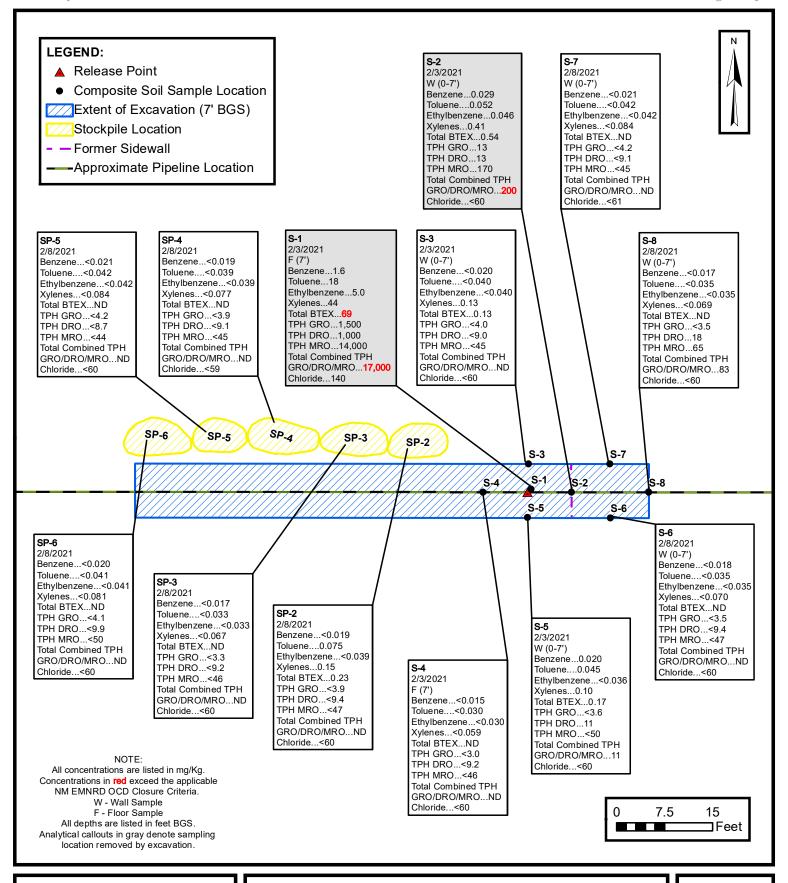


#### SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

**FIGURE** 





Environmental & Hydrogeologic Consultants

#### SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
CRAWFORD GC B#1E (02/01/21)
SW 1/2 S24 T29N R12W San Juan County New Mex

SW  $^{1}\!\!\!/,~$  S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

FIGURE

### LEGEND: Release Point GW Evacuation Excavation Temporary Sample Point Extent of Excavation -Approximate Pipeline Location GW-1 2/12/2021 Benzene...<1.0 µg/L Toluene....2.6 µg/L Ethylbenzene...<1.0 µg/L Xylenes...6.8 µg/L **2**Tw-2 TW-1 TW-1 **TW-2** 2/22/2021 2/22/2021 Benzene...<1.0 µg/L Benzene...<1.0 μg/L Toluene...<1.0 μg/L Toluene...<1.0 µg/L Ethylbenzene...<1.0 µg/L Ethylbenzene...<1.0 µg/L Xylenes...<1.5 µg/L Xylenes...<1.5 μg/L Styrene...<1.0 µg/L Styrene...1.1 µg/L Fluoride...<0.50 mg/L Chloride...2.8 mg/L Fluoride...<0.50 mg/L Chloride...3.5 mg/L Sulfate...45 mg/L Sulfate...59 mg/L Nitrate + Nitrite...<1.00 mg/L Nitrate + Nitrite...<1.00 mg/L pH...7.78 TDS...290 mg/L pH...7.67 TDS...292 mg/L 7.5 0 15 ∃Feet

# ENSOLU M Environmental & Hydrogeologic Consultants

#### SITE MAP WITH WATER ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

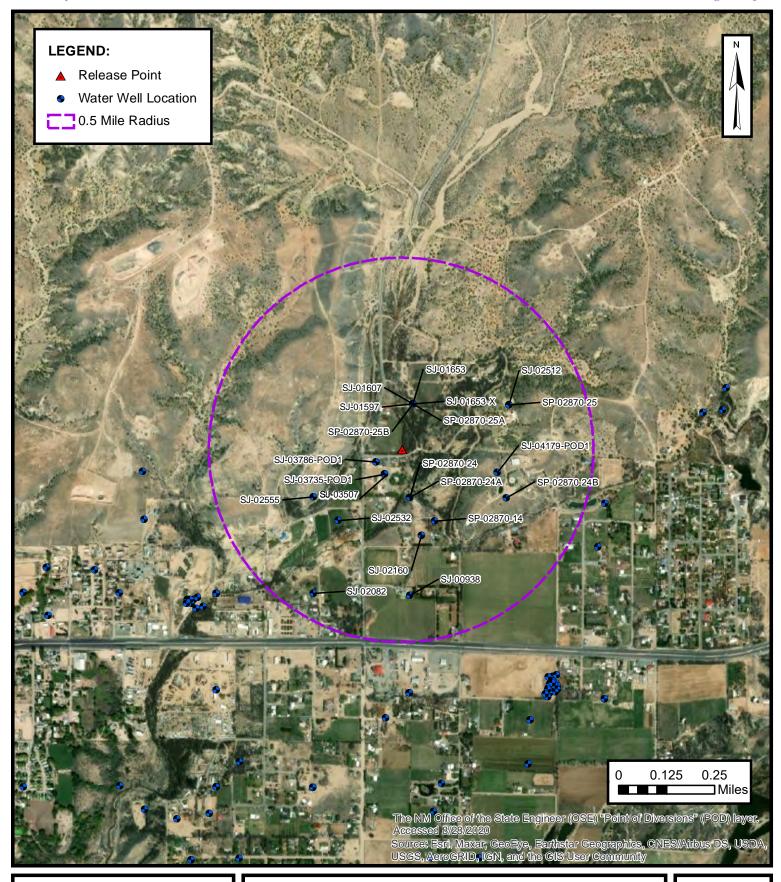
PROJECT NUMBER: 05A1226137

FIGURE



**APPENDIX B** 

Siting Figures and Documentation





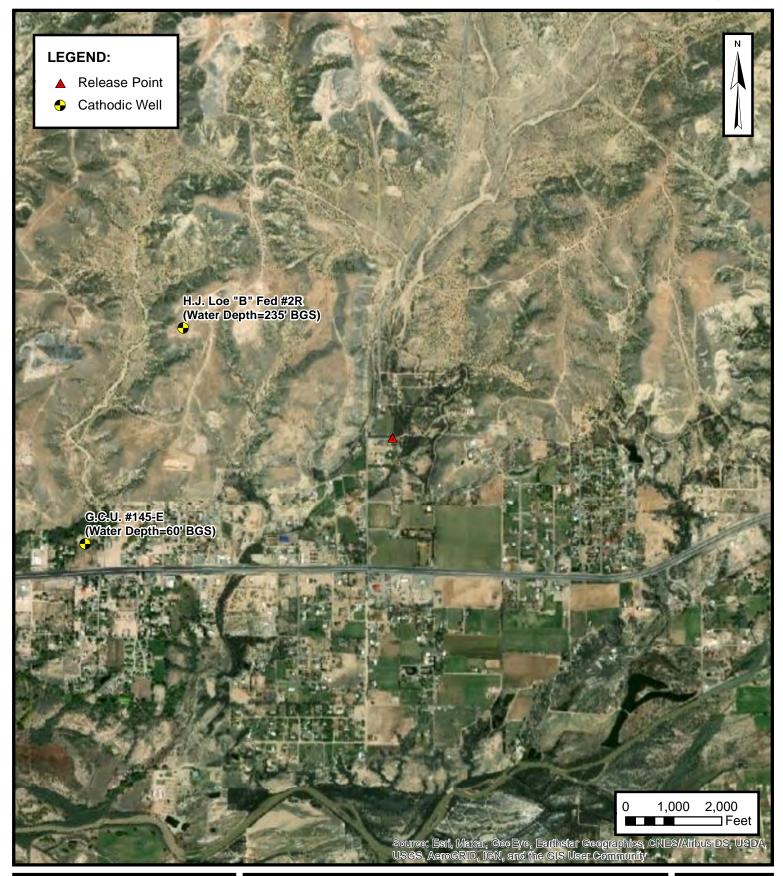
#### 0.5 MILE RADIUS WATER WELL MAP

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

**FIGURE** 

Α





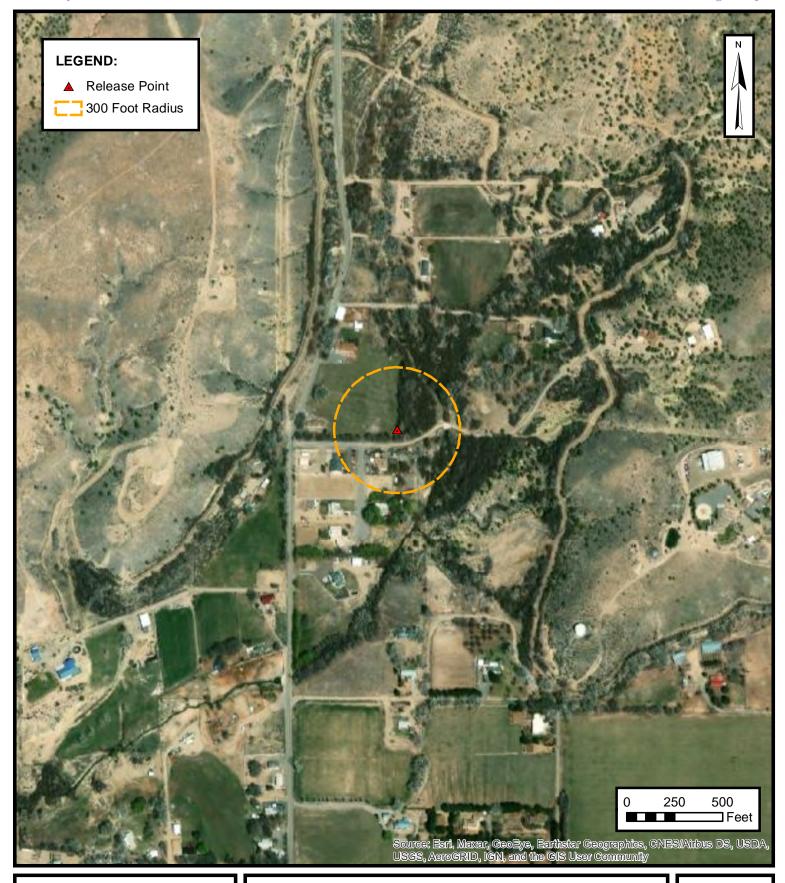
## CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

**FIGURE** 

B





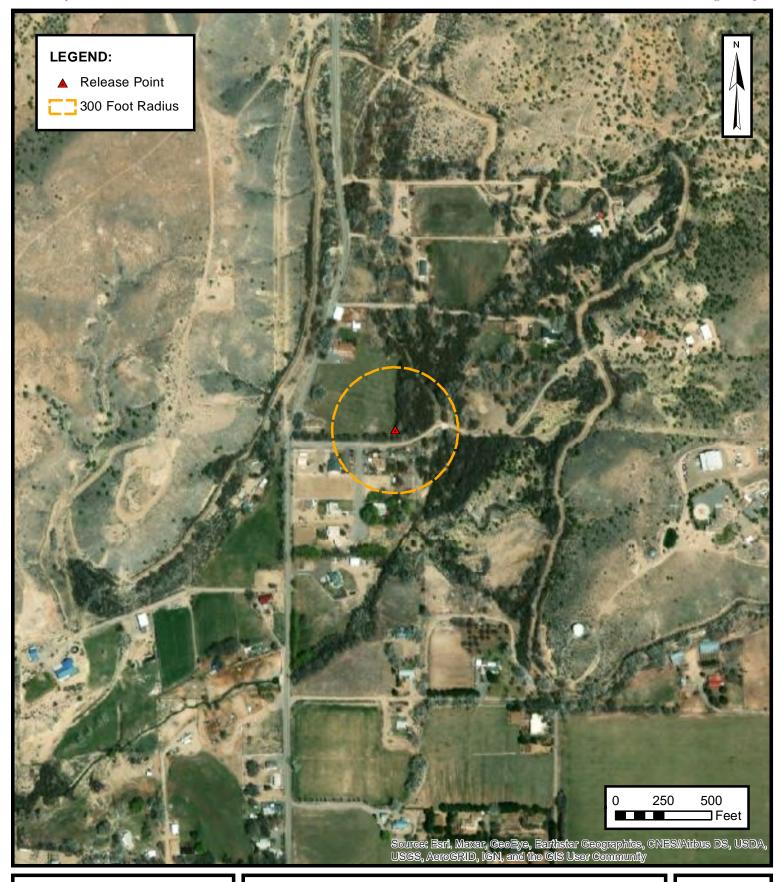
## 300 FOOT RADIUS WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

FIGURE

C





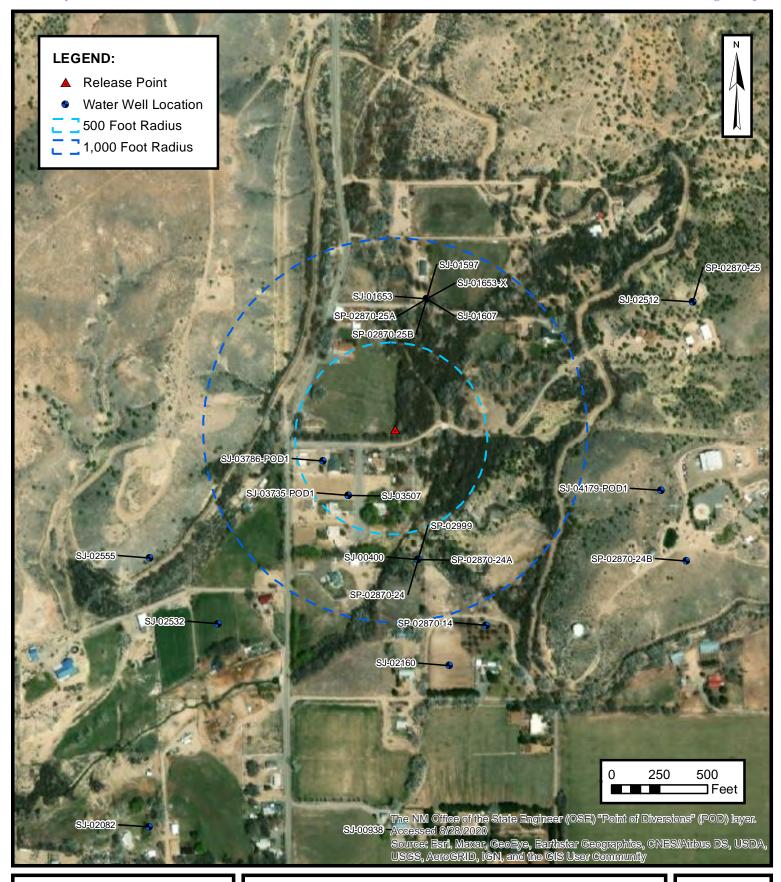
# 300 FOOT RADIUS OCCUPIED STRUCTURE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

FIGURE

D





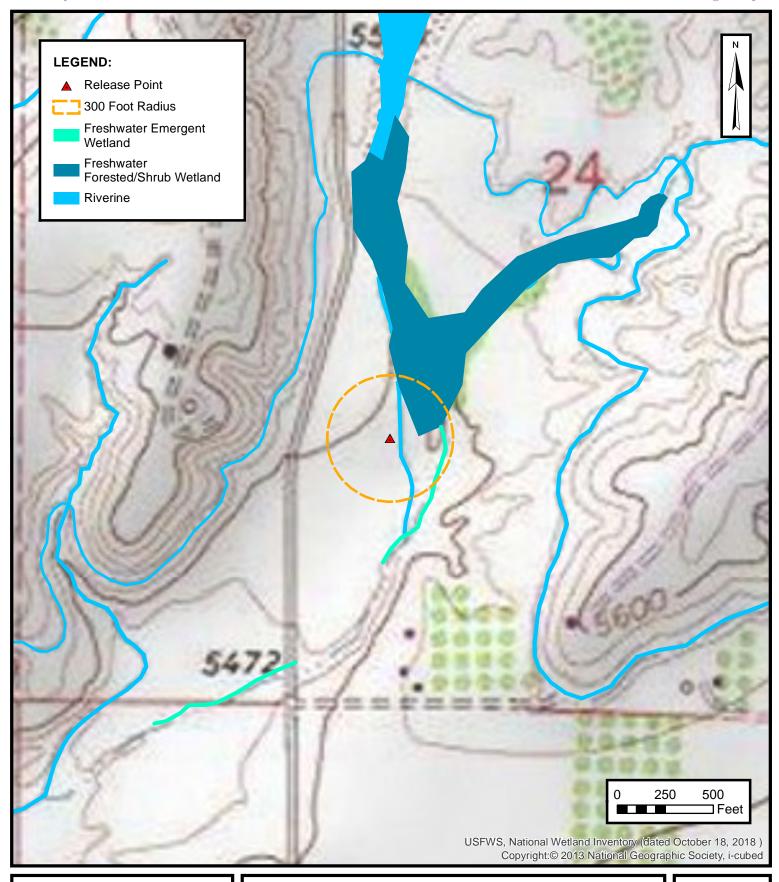
#### WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

FIGURE

E





#### **WETLANDS**

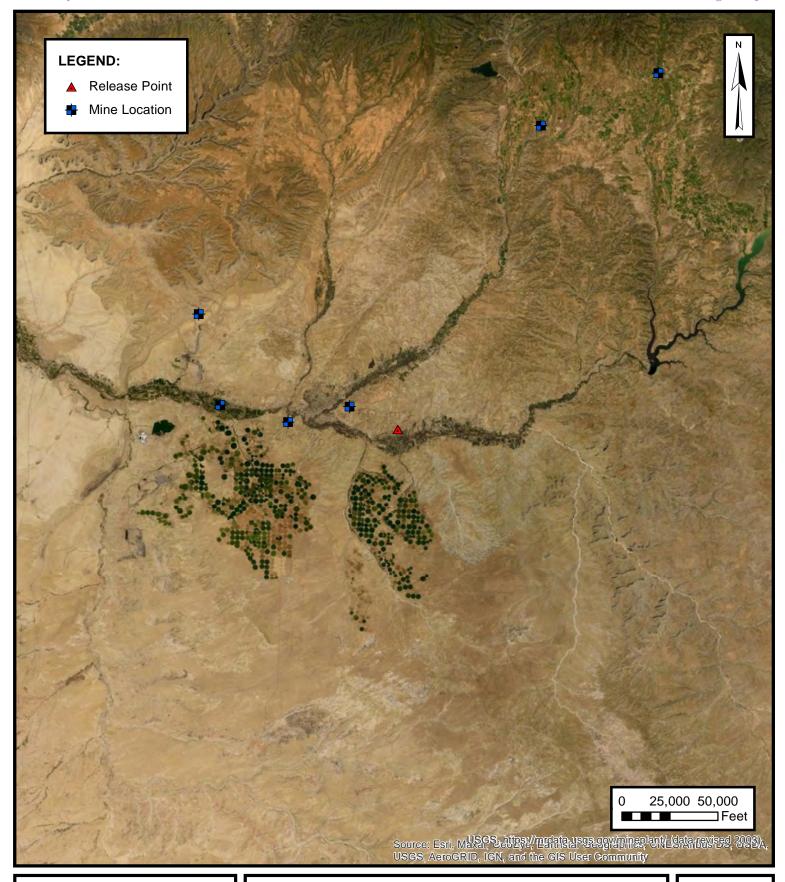
ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico

SW ¼, S24 T29N R12W, San Juan County, New Mexic 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

FIGURE

F





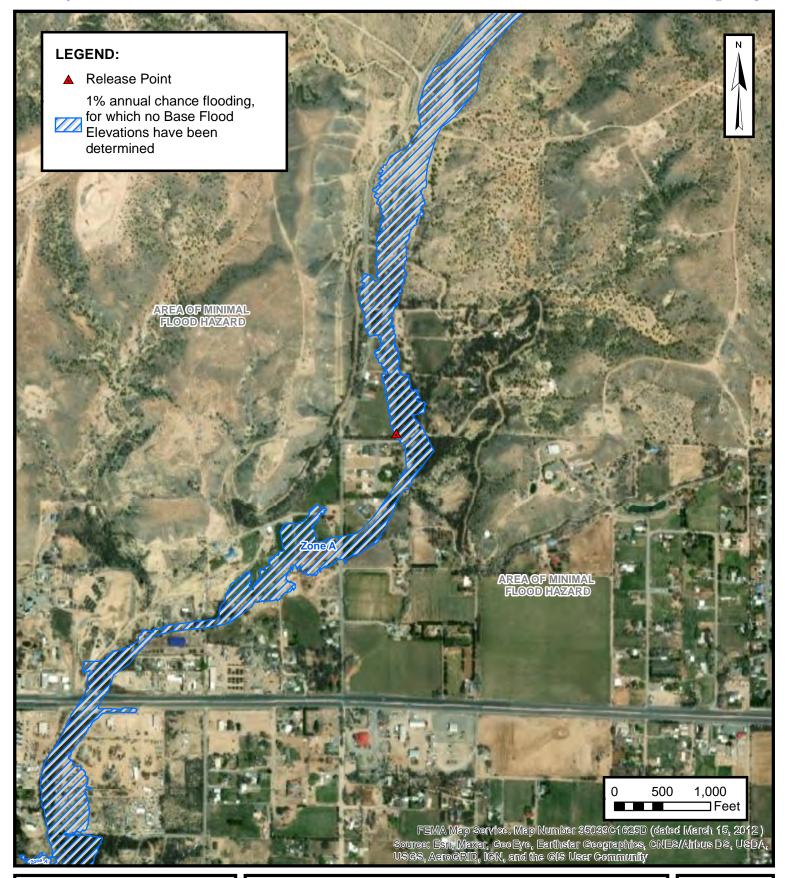
#### MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

**FIGURE** 

G





#### **100-YEAR FLOOD PLAIN MAP**

ENTERPRISE FIELD SERVICES, LLC CRAWFORD GC B#1E (02/01/21) SW 1/4, S24 T29N R12W, San Juan County, New Mexico

SW ¼, S24 T29N R12W, San Juan County, New Mexico 36.7082° N, 108.0536° W

PROJECT NUMBER: 05A1226137

**FIGURE** 

H

(In feet)



# 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 (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest) (NAD83 UTM in meters)

water figure mer,	0,000	POD Sub-	( 1 - 2 -	0	Q	0			3.5	, ,		Donth	Donth	Water
POD Number	Code	basin (	County		-	-	Sec	Tws	Rng	х	Υ	-	-	Column
SJ 00112		SJM2	SJ		4	3	26	29N	12W	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

\*UTM location was derived from PLSS - see Help

(In feet)

(A CLW#### in the POD suffix indicates the POD has been replaced (R=POD has been replaced, O=orphaned,

& no longer serves a C=the file is water right file.) closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

	POD Sub-		QQ	G						Denth	Denth	Water
POD Number	Code basin (	County				Tws	Rng	Х	Y	-	-	Column
SJ 03052	SJM2	SJ	4 1	3	26	29N	12W	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
SJ 03329	SJM2	SJ	3 4	4	26	29N	12W	226309	4064993* 🎒	40	12	28
SJ 03337	SJM2	SJ	2 2	1	26	29N	12W	225749	4066425* 🎒	50		
SJ 03338	SJM2	SJ	2 2	1	26	29N	12W	225749	4066425* 🎒	50		
SJ 03339	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
SJ 03341	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
SJ 03507	SJM2	SJ	1 4	3	24	29N	12W	227164	4066767* 🌍	60		
SJ 03580	Ο	SJ	4 4	3	25	29N	12W	227306	4064969* 🌍	20	4	16
SJ 03580 POD1	SJM2	SJ	4 4	3	25	29N	12W	227306	4064969* 🌍	20	4	16
SJ 03735 POD1	SJM2	SJ	1 4	3	24	29N	12W	227164	4066767* 🌍	100	15	85
SJ 03786 POD1	SJM2	SJ	1 4	3	24	29N	12W	227128	4066819 🌍	35	11	24
SJ 03789 POD1	SJM2	SJ	3 2	4	26	29N	12W	226392	4065383 🌍	40	14	26
SJ 04108 POD1	SJM2	SJ	2 2	3	25	29N	12W	227358	4065478 🎒	70	14	56
SJ 04179 POD1	SJM2	SJ	1 3	4	24	29N	12W	227631	4066759 🌍	280	180	100
SJ 04286 POD1	SJ	SJ	2	2	26	29N	12W	226354	4066272 🌍	13	5	8
SJ 04286 POD2	SJ	SJ	2	2	26	29N	12W	226344	4066257 🌍	14	5	9
SJ 04287 POD1	SJ	SJ	3	2	25	29N	12W	227820	4065877 🌍	23	15	8
SJ 04287 POD12	SJ	SJ	3	2	25	29N	12W	227830	4065879 🌍	23		
SJ 04287 POD2	SJ	SJ	3	2	25	29N	12W	227835	4065879 🌍	23	15	8

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

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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 **Range:** 12W

26, 25



# 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,

closed)

C=the file is

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

,	POD	· ·						, ,	,		`	
	Sub-		QQ	Q						Depth	Depth	Water
POD Number	Code basin	County	64 16	6 4	Sec	Tws	Rng	Х	Υ		-	Column
SJ 00875	SJM2	SJ	1	4	30	29N	11W	229229	4065336* 🌑	37	20	17
SJ 01250	SJM2	SJ	4	4	19	29N	11W	229660	4066529* 🎒	60	20	40
SJ 01260	SJM2	SJ	2	2	30	29N	11W	229650	4066123* 🌍	42	16	26
SJ 01264	SJM2	SJ	2	2	30	29N	11W	229650	4066123* 🌍	27	12	15
SJ 01328	SJM2	SJ	2	2	30	29N	11W	229650	4066123* 🎒	28	15	13
SJ 01391	SJM2	SJ		2	30	29N	11W	229441	4065939* 🌍	40	25	15
SJ 01641	SJM2	SJ	3 2	2	19	29N	11W	229603	4067633* 🌍	120	55	65
SJ 01821	SJM2	SJ	4	2	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	19	29N	11W	229361	4066647* 🌍	100	18	82
SJ 03348	SJM2	SJ	3 1	2	30	29N	11W	229150	4066042* 🎒	60		
SJ 04117 POD1	SJM2	SJ	4 2	2	30	29N	11W	229689	4066051 🌕	50	15	35
SJ 04392 POD1	SJM2	SJ	4	2	19	29N	11W	229747	4066925 🌍	60		

Average Depth to Water: 18 feet

Minimum Depth:

6 feet

Maximum Depth:

55 feet

Record Count: 13

PLSS Search:

Section(s): 18, 19, 30 Township: 29N Range: 11W

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

30-045-24291 (Submit 3 copies to OCD Aztec Office)

Operator <u>F.P.F.S.</u>		Location: Unit WW Se	c. <u>26</u> Twp <u>29</u> Rng <u>/2</u>
Name of Well/Wells or Pi	peline Serviced	G.C.U. #145-E	Mt # 93462
		5.2-97 Total Depth 320	Land Type * F SF 07990
Casing, Sizes, Types & D	epths <u>&amp; FE</u>	P.VC. 20'	
If Casing is cemented, sho	w amounts & ty	pes used <u>10 BA45</u>	
If Cement or Bentonite Pl	ugs have been p	laced, show depths & amounts used	
Depths & thickness of war		escription of water when possible:	DECEIVED OCT 1 4 1997
Depths gas encountered:			OUL GON. DIV.
Type & amount of coke by Depths anodes placed:		612566 Sul	
Depths vent pipes placed:			
Vent pipe perforations:	220		
Remarks:		Jarre	6

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.

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

### THE LOFTIS COMPANY

Page 1 OF \_\_\_\_\_\_

DEEP WELL GR	OUNDBED DATA	DATE <u>May 2, 1997</u>
COMPANYEP	ES/Amoco	COUNTY _san _Juan STATE _NM
	FC-96-1000	
LOCATION	Gallegos CU #145E	
GROUNDBED:	DEPTH 320 FT., DI	A. $\frac{7}{7}$ 7/8 In., Anodes (10) 2 x 60 SHA-2
CASING:	Size 8 In., De	,

DEPTH FT.	DRILLER'S	LOG	Resis Ohms	TIVITY AMPS	Anode Number	DEPTH TO ANODE TOP	Before Coke	AFTER COKE
5	Casing					·	<u>-</u>	<del> </del>
10	"							
15	11					· · · · · · · · · · · · · · · · · · ·		
20	Shale				<del>}</del>	·		
25	"		<del></del>			•		
<del>3</del> 0	11							
35	11							$\mathcal{U}$
40	11					DECL		
45	11			1.2	<u>.</u>	IN OCT 1	4 1997	19
50	11			1.0			4 1507	
55	11	1		0.7				1.07
60	11			0.9		CONTIL GO	DIII OIII	13/o
65				0.7		Towns Car	(200 4)	
70	11	†		1.0		101	an. 3	<del></del>
75	11			1.8	_			
80	11	<u> </u>				·		
85	11	<u> </u>		1.9		·		
90	11			1.9				<u> </u>
95	11			1.5				
.00	11	1		1.5	10	95	1.7	6.2
.05				1.6				
	11			1.6	9	105	1.6	5.7
10	11			1.5				
15				1.9	8	114	1.9	6.8
<u>20</u>		1		1.8	7	122	1.8	6.7
25	11		_	1.6				
30	. 11			1.6	6	132	1.8	6.5
35	11	-		1.2				
40	11			1.0				
45	11			1.1				
50	"			1.0				
55				0.9				
60	Sandstone & Sh	ale		0.9			,	
65 70 75	11	T		0.8				
<u>/U</u>				0.7				
/5	n			0.7				
80		<u> </u>		0.8				
85	11			1.4				
70	"			1.5	5	190	1.5	4.8
썴	"			1.0				
<u>uu l</u>	11			1.1				
<u> </u>	11			1.1				
īΠ	Shale			0.9				
ĭΣ	"			0.8				
90 95 00 05 10 15 25 30 35	11			0.8				
<u>25</u>	11			0.9				
<u> 50                                    </u>	"			0.8			!	
	11			0.8		-		
40	Shale   maging: 3/3/2022 11:			0.8				

TDM1350

COMPANY EPFS/Amoco DATE <u>May 2, 1997</u> LOCATION \_ Gallegos CU #145E

UNIT NO. 93462

255	Дертн Ет	DRILLER'S	LOG	RESISTIVITY OHMS AMPS		Anode Number	DEPTH TO ANODE TOP	Before Coke	AFTER COKE
275	245	Shale			0.8	<del></del>			1
275	250							1	<del>                                     </del>
275	255							<del> </del>	<del> </del>
275	260	11						<del> </del>	
275	265	11						<del>                                     </del>	<del> </del>
275	270	11		<u> </u>				<del></del> -	
Shale	275	11		<del> </del>				<del> </del>	<u> </u>
285 "	280	Shale		<del>                                     </del>		1	280	1 0	5 2
1.8   3   288   2.1   6.0     295	l 285 - I						200	1.0	J.3
300 " 1.5 1 300 1.6 5.1 305 " 1.7	290	11				3	288	2 1	6.0
300 " 1.5 1 300 1.6 5.1 305 " 1.7	295	11 .	!	<del> </del>					
305 "	1300 I	II						1 6	5.1
315 " 320 Shale 325	305	11				<del></del>		1 0	7.1
315 " 320 Shale 325	310	11						<del>                                     </del>	
325   330   335   340   345   355   350   355   355   360   365   370   375   375   376   377   375   377	315	11			<u> </u>	· · · · · · · · · · · · · · · · · · ·		<del> </del>	
325   330   335   340   345   355   350   355   355   360   365   370   375   375   376   377   375   377	320	Shale							
335	325							1	<del> </del>
335	330								1
340 345 350 351 352 353 360 365 370 375 375 380 385 390 395 400 405 410 405 410 415 420 425 435 440 445 455 440 445 455 466 465 470 475 480 485 490 491	335								<del>                                     </del>
345 350 351 355 360 365 367 370 375 380 381 389 390 395 400 400 400 410 415 410 415 420 425 430 445 4460 445 4460 445 450 465 470 475 480 4880 4880 4880 4990 4995	340		.					<del> </del>	
360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 440 440 440 440 447 440 440 440 440	345								1
360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 440 440 440 440 447 440 440 440 440	350								<del>                                     </del>
360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 440 440 440 440 447 440 440 440 440	355							<del> </del>	<del> </del>
370         380         381         390         395         400         405         410         415         420         425         430         435         440         445         450         455         460         465         470         485         490         495         500	360							<del> </del>	<del> </del>
370         380         381         390         395         400         405         410         415         420         425         430         435         440         445         450         455         460         465         470         485         490         495         500	365							<del>                                     </del>	<del> </del>
375 380 385 390 395 400 405 410 415 420 425 430 445 440 445 455 466 465 470 475 480 485 490	370								<del> </del>
380         385         390         395         400         405         410         415         420         425         430         435         440         445         450         455         460         465         470         475         480         485         490         495         500	375								<del> </del>
390 395 400 405 410 415 420 425 430 445 440 445 450 450 465 460 465 470 475 480 480 485 490	380							<del> </del>	<del> </del>
390 395 400 405 410 415 420 425 430 445 440 445 450 450 465 460 465 470 475 480 480 485 490	385							<del>                                     </del>	
395         400         405         410         415         420         425         430         435         440         445         450         460         465         470         475         480         490         495         500	390		·						
400         405         410         415         420         425         430         435         440         445         450         455         460         465         470         475         480         490         495         500	395							<del></del>	<del>                                     </del>
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### 30-045-22163

# DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Remarks:	·
Remarks:	
Vent pipe perforations:	
Depths vent pipes placed:	DIL CON.: DIV.
Depths anodes placed: See attached log	MAR 2 1992
Type & amount of coke breeze used:	ECEIVER
Depths gas encountered:	
Depths & thickness of water zones with description Presh, Clear, Salty, Sulphur, Etc. See a Hacked	1
If Cement or Bentonite Plugs have been placed, sh Unknown	ow depths & amounts used
If Casing is cemented, show amounts & types used_	UNKNOWN
To entire the computed to been appointed to type a people	111/2
Casing, Sizes, Types & Depths 63/4" hole to 38	0'
Elevation Completion Date 4/19/89 Total Depth	
Name of well/wells of Pipeline Serviced M.O. NOC	e o rea on
Operator Texaco Eqp Toc. Location: Un Name of Well/Wells or Pipeline Serviced H.J. Loc	

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

If Federal or Indian, add Lease Number.

DATA SHEET NO. \_\_\_/\_\_\_

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cathodic protection service

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# **ENSOLUM**

**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

**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)
tilong@eprod.com



From: Long, Thomas

Sent: Friday, February 19, 2021 7:05 AM

**To:** 'Smith, Cory, EMNRD' < <a href="mailto:cory.smith@state.nm.us">cory.smith@state.nm.us</a>>

**Cc:** Stone, Brian < <a href="mailto:bmstone@eprod.com">bmstone@eprod.com</a>>; 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)
tilong@eprod.com



From: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

Sent: Wednesday, February 10, 2021 8:25 AM

**To:** Long, Thomas < tilong@eprod.com>

**Cc:** Stone, Brian < bmstone@eprod.com >; 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 <tilong@eprod.com>

Sent: Wednesday, February 10, 2021 8:08 AM

**To:** Smith, Cory, EMNRD < <u>Cory.Smith@state.nm.us</u>>

**Cc:** Stone, Brian < bmstone@eprod.com >; 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)
tilong@eprod.com



**From:** Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

**Sent:** Monday, February 8, 2021 8:41 AM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

**Cc:** Stone, Brian < bmstone@eprod.com >; 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 < <a href="mailto:Cory.Smith@state.nm.us">Cory.Smith@state.nm.us</a>>

**Cc:** Stone, Brian < bmstone@eprod.com >; 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,

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)
tilong@eprod.com



**From:** Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

**Sent:** Saturday, February 6, 2021 10:41 AM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

**Cc:** Stone, Brian < bmstone@eprod.com >; 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 | Cory.Smith@state.nm.us

From: Long, Thomas <tilong@eprod.com>

http://www.emnrd.state.nm.us/OCD/

To: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

**Cc:** Stone, Brian < bmstone@eprod.com>

Sent: Friday, February 5, 2021 9:10 AM

**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 < Cory.Smith@state.nm.us>

**Sent:** Friday, February 5, 2021 6:36 AM **To:** Long, Thomas <tilong@eprod.com> **Cc:** Stone, Brian <br/>
bmstone@eprod.com>

**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 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tilong@eprod.com>
Sent: Thursday, February 4, 2021 3:07 PM

To: Smith, Cory, EMNRD < <a href="mailto:Cory.Smith@state.nm.us">Cory.Smith@state.nm.us</a>>

**Cc:** Stone, Brian < bmstone@eprod.com>

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)
tilong@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

District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210

1000 Río Brazos Road, Aztec, NM 87410

**IGNATURE:** 

urface Waste Management Facility Authorized Agent

State of New Mexico **Energy Minerals and Natural Resources** Oil Conservation Division 1220 South St. Francis Dr.

Form C-138 Revised 08/01/11 Received by OCD: 9/7/2021 7:47:12 AM

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Santa Fe, NM 87505 220 S. St. Francis Dr., 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 **Originating Site:** Crawford GC B#1E Location of Material (Street Address, City, State or ULSTR): Unit K Section 24 T29N R12W, San Juan County, NM; 36.70820, -108.05360 Source and Description of Waste: Source: Hydro excavation Spoils from a Leak from a Natural Gas Gathering Line Description: Soil impacted with Natural Gas Liquids (Condensate and Water) Estimated Volume 50 yd3 bbl Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ yd3 bbls 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I. Thomas 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-Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load exempt waste. 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 2-3-2021, representative for Enterprise Products Operating authorizes <u>IEI, Inc.</u> to complete I, Thomas Long **Generator Signature** the required testing/sign the Generator Waste Testing Certification. I, representative for IEI, Inc. 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. Transporter: Riley Industrial Seera O. C. 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 Method of Treatment and/or Disposal: ☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record) DATE: 2/8/ PRINT NAME: TITLE:

TELEPHONE NO.: 505-632-1782



APPENDIX E

Photographic Documentation

#### SITE PHOTOGRAPHS

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.



# **ENSOLUM**

**APPENDIX F** 

**Tables** 



# TABLE 1 Crawford GC B#1E (02/01/21) SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX1	TPH	TPH	TPH	Total Combined	Chloride
		C- Composite	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH	(mg/kg)
		G - Grab										(GRO/DRO/MRO) <sup>1</sup>	
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
	Energy, Mineral & onservation Divisio			10	NE	NE	NE	50				100	600
				Composite So	il Samples Remov	ed by Excavation a	nd Transported to	Landfarm for Dispo	sal/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	from 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	oosite 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

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

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



# 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	er Quality Control mission th Standards	5	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
	Wate	r Samples Collec	ted from the Tem	nporary Sample P	oints	
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

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).

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



# TABLE 3 Crawford GC B#1E (02/01/21) GROUNDWATER ANALYTICAL SUMMARY - INORGANICS, PHYSICAL, AND CHEMICAL PROPERTIES

Sample I.D.	Sample Date	mg/ /r/	(mg/r)	(mg/L)	wb/r) Nitrate + Nitrite	(mg/L)	(mg/L)	(mg/L)	magnesium /T)	(mg/L)	unipos (mg/L)	Н	m Total Dissolved /a/Solids	Conductivity (mx/soqumi)	(b) Total Alkalinity
Comm Human Health	ter Quality Control mission n Standards and Supply Standards	1.6	250	600	11	NE	NE	NE	NE	NE	NE	6-9	1,000	NE	NE
					Wa	ter Samples C	ollected from	the Temporary	Sample Point	s					
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).

# **ENSOLUM**

## APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

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.: 2102204

#### 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 Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/8/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

 Project:
 Crawford GCB #1E
 Collection Date: 2/3/2021 4:30:00 PM

 Lab ID:
 2102204-001
 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	140	60		mg/Kg	20	2/4/2021 10:09:33 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					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

Date Reported: 2/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 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 ORG	ANICS					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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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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Date Reported: 2/8/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

 Project:
 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 ORG	SANICS					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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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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Date Reported: 2/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

 Project:
 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 ORG	ANICS					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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Date Reported: 2/8/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

 Project:
 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	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: <b>VP</b>
Chloride	ND	60		mg/Kg	20	2/4/2021 10:59:10 AM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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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## **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2102204** 

08-Feb-21

**Client:** ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: MB-57911 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57911 RunNo: 75086

Prep Date: **2/4/2021** 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-57911 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57911 RunNo: 75086

Prep Date: 2/4/2021 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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#### **OC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2102204 08-Feb-21

**Client: ENSOLUM** 

**Project:** Crawford GCB #1E

Sample ID: MB-57853 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57853 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/3/2021 SeqNo: 2649194 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 8.5 10.00 84.5 70 130

Sample ID: LCS-57853 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57853 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/3/2021 SeqNo: 2649195 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: DNOP 5.000 81.3 130

Sample ID: MB-57860 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57860 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SeqNo: 2649218 Units: %Rec

SPK value SPK Ref Val %REC Analyte Result POL LowLimit HighLimit %RPD RPDI imit Qual

Surr: DNOP 10.00 92.9 70

Sample ID: LCS-57860 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57860 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SeqNo: 2649219 Units: %Rec

%RPD Qual

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** 86.0 70

Surr: DNOP 4.3 5.000 130

Sample ID: MB-57873 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57873 RunNo: 75056

Prep Date: 2/3/2021 Analysis Date: 2/4/2021 SeqNo: 2649463 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 10.00 70 114 130

Sample ID: MB-57910 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57910 RunNo: 75056

Prep Date: 2/4/2021 Analysis Date: 2/4/2021 SeqNo: 2649464 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result PQL HighLimit **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 105 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 7 of 11

## **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2102204** *08-Feb-21* 

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: LCS-57873 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57873 RunNo: 75056

Prep Date: 2/3/2021 Analysis Date: 2/4/2021 SeqNo: 2649465 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.3 5.000 106 70 130

Sample ID: LCS-57910 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57910 RunNo: 75056

Prep Date: 2/4/2021 Analysis Date: 2/4/2021 SeqNo: 2649963 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Diesel Range Organics (DRO) 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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#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2102204 08-Feb-21

S

**Client: ENSOLUM** 

**Project:** Crawford GCB #1E

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G75077 RunNo: 75077

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650151 Units: mq/Kq

SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 105 75.3 105

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G75077 RunNo: 75077

1200

1600

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650152 Units: mg/Kg

1000

1000

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 109 80 120 Surr: BFB

117

159

75.3

75.3

105

105

0

Sample ID: 2102204-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: S-2 Batch ID: G75077 RunNo: 75077 Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650623 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Gasoline Range Organics (GRO) 41 5.0 25.00 13.64 109 61.3 114 Surr: BFB S 1600 1000 162 75.3 105

Sample ID: 2102204-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: S-2 Batch ID: G75077 RunNo: 75077 Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650624 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 39 5.0 25.00 13.64 103 61.3 3.69 20 114

Sample ID: Ics-57856 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range LCSS Client ID: Batch ID: 57856 RunNo: 75077 Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SegNo: 2650627 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 1200 1000 75.3 S 117 105

Sample ID: mb-57856 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 57856 RunNo: 75077 Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SeqNo: 2650628 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:

Surr: BFB

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

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

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S

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102204** 

08-Feb-21

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: mb1	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>B7</b>	5077	F	RunNo: 7	5077				
Prep Date:	Analysis D	ate: <b>2/</b>	4/2021	9	SeqNo: 2	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								
Ethylhenzene	ND	0.050								

 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 Ics	Samp <sup>-</sup>	Type: <b>LC</b>	S	Tes	tCode: El	tiles				
Client ID: LCSS	Batc	h ID: <b>B7</b>	5077	F	RunNo: <b>7</b>	5077				
Prep Date:	Analysis [	Date: <b>2/</b>	4/2021	5	SeqNo: 2	650169	Units: mg/K	ζg		
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	ample ID: LCS-57856 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS Batch ID: 57856 RunNo: 75077											
Prep Date: 2/2/2021	4/2021	S	SeqNo: 2	650691 Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorohenzene	1.0		1 000		102	80	120				

Sample ID: <b>mb-57856</b>	ID: mb-57856 SampType: MBLK TestCode: EPA Metho					PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: <b>57</b>	856	R	RunNo: 7	5077				
Prep Date: 2/2/2021	rep Date: 2/2/2021 Analysis Date: 2/4/2021				SeqNo: 2	650692	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1 000		101	80	120			

Sample ID: 2102204-003ams	SampType: MS TestCode: EPA Method 8						8021B: Volat	iles		
Client ID: S-3	Batch	n ID: <b>B7</b>	5077	F	RunNo: <b>7</b>	5077				
Prep Date:	Analysis D	Analysis Date: <b>2/4/2021</b> SeqNo: <b>2650693</b>					Units: mg/K	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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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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## **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2102204

08-Feb-21

**Client: ENSOLUM** 

**Project:** Crawford GCB #1E

Sample ID: 2102204-003ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: S-3 RunNo: 75077 Batch ID: **B75077** 

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650693 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit

Surr: 4-Bromofluorobenzene 1.1 1.000 107 80 120

Sample ID: 2102204-003amsd

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: S-3

Batch ID: **B75077** 

RunNo: **75077** 

Prep Date:	Pate: Analysis Date: 2/4/2021			5	SeqNo: 2	650694	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	0.01959	92.0	76.3	120	1.38	20	
Toluene	0.99	0.050	1.000	0.03885	95.6	78.5	120	2.29	20	
Ethylbenzene	0.96	0.050	1.000	0.01815	94.0	78.1	124	1.52	20	
Xylenes, Total	3.0	0.10	3.000	0.1324	94.9	79.3	125	1.66	20	
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120	0	0	

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: ENSOLUM	Work Order Num	per: 2102204		RcptNo:	1
Received Day Liver Dates	0/4/0004 0 00 00 0		Hun By &		
Received By: Juan Rojas	2/4/2021 8:00:00 A		7 2		
Completed By: Cheyenne Cason	2/4/2021 8:05:30 A	M			
Reviewed By:	2/4/21				
Chain of Custody					
Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the sam	ples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated	test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) p	roperly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at least 1 vial with headspace	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	)
10. Were any sample containers received	broken?	Yes	No 🗸	# of preserved	
11. Does paperwork match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custod	iy)	103		(<2 or	>12 unless noted)
12. Are matrices correctly identified on Ch	ain of Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were requested		Yes 🗸	No 🗌		11./2/
14. Were all holding times able to be met? (If no, notify customer for authorization		Yes 🗸	No 📙	Checked by:	W 2/4/21
Special Handling (if applicable)					
15. Was client notified of all discrepancies	s with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date		months accommon accommon accommon.		
By Whom:	Via:	eMail I	Phone  Fax	In Person	
Regarding:					
Client Instructions:		WHITE AN APPLICATE TO SQUINGS OF STURMAN AND STURMAN A	ricital (430 km² y knoch turb va nasukobena	and result value of the second second second second	
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 0.8 Good	Seal Intact Seal No	Seal Date	Signed By		

Received by C	OCD: 9/	7/2021	7:47:	12 AM													П	$\Box^{-I}$	Page 69 of 12
HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109			PO4, S0	NO <sub>2</sub> , I	510 ostals 40 <sub>3</sub> , 0V-	8 Me 8 Me 7, 18 (AO)	RCRA CI, F, B 8260 (/ 8270 (9 Total C		*	X	×	×					PM-TDM Long (EPROD)	Date Time    Mark   Color   Co
	] 10¢	Tel. 50			1 Z808/s													] :, £	Any su
	<b>3</b>	Н			O / DRC				×	×	×	$\times$	$\times$					Remarks	sibility.
			(	. (802	I I	<del>- 38.</del>		X3T8	X	X	×	×	$\times$	_	+	-	$\vdash$	Re ?	itis pos
Turn-Around Time: SAME 0.44  □ Standard Rush Cott	roject Name: Cawfid GCB#1E	: Seenotes	Project Manager: XSummes		Ranchilles Ares Are	3 -	Cooler Temp(including CF): ( , () + (6.2 = 0, \{ -(°C)}	r Preservative HEAL No.	600			To cost goy	0					1	Y: Via: Date Time  Y: Via: Date Time  W.V. & 2/4/2/ S.O.O.  The accredited laboratories. This serves as notice of the
urn-Around □ Standard	Crawfe o	Project #:	roject	GF	Sampler: On Ice:	# of Coolers:	ooler T	Container Type and #	x 462 Jar	x Yoz Jor	x 402	× Yez Ter	x Yer Ja					Received by:	Received by
of-Custody Record	1065, Rid Gand Suit A	1 87410	chsolumian		93			Matrix Sample Name	S S-1	5 5 5-2	5 5-3	5 5 5-4	5 8-5					Relinquished by:	Relinquished by:
Chair.	maging Address:	3/3/20 3/3/20	email or Fax#:	QA/QC Package Standard	Accreditation:	□ EDD (Type)		Date Time	23/21 1630	2/3/21 1635	2/3/21/640	2/3/2/ 1645	2/3/4/1650					Date: Time:	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

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

#### 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 Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order **2102205** 

Date Reported: 2/8/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client 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 ORG	SANICS					Analyst	: TOM
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
- 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 6

## **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2102205** 

08-Feb-21

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: MB-57911 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57911 RunNo: 75086

Prep Date: 2/4/2021 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-57911 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57911 RunNo: 75086

Prep Date: 2/4/2021 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

Page 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2102205 08-Feb-21

**Client: ENSOLUM** 

**Project:** Crawford GCB #1E

Sample ID: MB-57853 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57853 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/3/2021 SeqNo: 2649194 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 8.5 10.00 84.5 70 130

Sample ID: LCS-57853 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57853 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/3/2021 SeqNo: 2649195 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: DNOP 5.000 81.3 130

Sample ID: MB-57860 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57860 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SeqNo: 2649218 Units: %Rec

SPK value SPK Ref Val %REC Analyte Result POL LowLimit HighLimit %RPD RPDI imit Qual

Surr: DNOP 10.00 92.9 70

Sample ID: LCS-57860 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57860 RunNo: 75034

Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SeqNo: 2649219 Units: %Rec

%RPD Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual

Surr: DNOP 4.3 5.000 86.0 70 130

Sample ID: MB-57873 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57873 RunNo: 75056

Prep Date: 2/3/2021 Analysis Date: 2/4/2021 SeqNo: 2649463 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 10.00 70 114 130

Sample ID: MB-57910 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 57910 RunNo: 75056

Prep Date: 2/4/2021 Analysis Date: 2/4/2021 SeqNo: 2649464 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result PQL HighLimit **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 105 70 130

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 3 of 6

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102205** 

08-Feb-21

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: LCS-57873 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57873 RunNo: 75056

Prep Date: 2/3/2021 Analysis Date: 2/4/2021 SeqNo: 2649465 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.3 5.000 106 70 130

Sample ID: LCS-57910 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57910 RunNo: 75056

Prep Date: 2/4/2021 Analysis Date: 2/4/2021 SeqNo: 2649963 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 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

Page 4 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2102205** *08-Feb-21* 

S

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G75077 RunNo: 75077

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650151 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 105 75.3 105

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G75077 RunNo: 75077

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650152 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 109 80 120

117

75.3

105

Sample ID: Ics-57856 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 57856 RunNo: 75077

1200

Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SeqNo: 2650627 Units: %Rec

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Surr: BFB 1200 1000 117 75.3 105 S

Sample ID: mb-57856 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 57856 RunNo: 75077

Prep Date: 2/2/2021 Analysis Date: 2/4/2021 SegNo: 2650628 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:

Surr: BFB

- 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 Quantitative 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 5 of 6

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102205** 

08-Feb-21

**Client:** ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: mb1	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	d 8021B: Volatiles					
Client ID: PBS	Batch	h ID: <b>B7</b>	5077	F	RunNo: 7	5077						
Prep Date:	Analysis D	Date: <b>2/</b>	4/2021	SeqNo: <b>2650166</b>			Units: mg/Kg					
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 Ics	Samp	Type: <b>LC</b>	S	Tes	8021B: Volat	iles					
Client ID: LCSS	Batc	h ID: <b>B7</b>	5077	F							
Prep Date:	Analysis [	Date: <b>2/</b>	4/2021	9	SeqNo: 20	650169	Units: mg/Kg				
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	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: <b>57</b>	856	F	RunNo: 7	5077				
Prep Date: 2/2/2021	Analysis D	ate: 2/	4/2021	S	SeqNo: 2	650691	Units: %Red	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

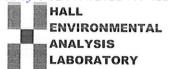
Sample ID: <b>mb-57856</b>	SampT	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: <b>57</b>	856	F	RunNo: <b>7</b>	5077				
Prep Date: 2/2/2021	Analysis Da	ate: <b>2/</b>	4/2021	S	SeqNo: 20	650692	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	·	1 000		101	80	120			

#### Qualifiers:

- 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 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name:	ENSOLUM	Work Order Number:	2102	2205		RcptNo:	1
Received By:	Juan Rojas	2/4/2021 8:00:00 AM			Glean Say		
Completed By:	Cheyenne Cason	2/4/2021 8:12:18 AM					
Reviewed By:	70	2/4/21					
•							
Chain of Cus	tody						
	ustody complete?		Yes	<b>V</b>	No 🗌	Not Present	
2. How was the	sample delivered?		Cour	<u>rier</u>			
Log In							
	pt made to cool the sam	ples?	Yes	<b>✓</b>	No 🗌	NA 🗌	
4. Were all samp	oles received at a temper	rature of >0° C to 6.0°C	Yes	<b>✓</b>	No 🗌	NA 🗆	
5. Sample(s) in r	proper container(s)?		Yes	<b>V</b>	No 🗌		
campio(o) iii p	oropor contamor(c):		103	<u></u>			
6. Sufficient sam	ple volume for indicated	test(s)?	Yes	<b>✓</b>	No 🗌		
7. Are samples (	except VOA and ONG) p	roperly preserved?	Yes	<b>✓</b>	No 🗌		
8. Was preservat	tive added to bottles?		Yes		No 🗸	NA 🗌	
9. Received at le	ast 1 vial with headspace	e <1/4" for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any san	nple containers received	broken?	Yes		No 🗸	# of preserved	
11.5						bottles checked	
	ork match bottle labels? ancies on chain of custod	v)	Yes	<b>V</b>	No 🗀	for pH: (<2 or	>12 unless noted)
	correctly identified on Cha		Yes	<b>V</b>	No 🗌	Adjusted?	
13. Is it clear what	analyses were requeste	d?	Yes	<b>v</b>	No 🗌	/ .	114/6
	ng times able to be met?		Yes	<b>✓</b>	No 🗌	Checked by:	W 2/4/2
	ustomer for authorization	.)					
Special Handli	ing (if applicable)						
15. Was client no	tified of all discrepancies	with this order?	Yes		No 🗌	NA 🗹	
Person	Notified:	Date:	onue eterropio	MINISTER STATES	CONTRACTOR		
By Who	om:	Via:	_ eMa	ail 🗌	Phone Fax	☐ In Person	
Regardi	,	TVINETHER PERSONNELS PROPERTY OF THE PERSONNELS PROPERTY PROPERTY OF THE PERSONNELS PROPERTY	r-sectional disease	A long to the long	ALCOHOLOGICA CONTRACTOR CONTRACTO	NO SECTION AND ADDRESS OF THE PROPERTY OF T	
Client Ir	nstructions:	The second secon				THE RESIDENCE OF THE PROPERTY	
16. Additional rer	marks:						
17. Cooler Inform	mation						
Cooler No			eal D	ate	Signed By		
1	0.8 Good	Yes					

Received by OCD: 9/7/2021 7:47:12 AN Page 78 of 120 ANALYSIS LABORATORY PM-TOM LON (EPROD HALL ENVIRONMENTAL NON AFF-NSARA 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 Pay Key- RB21200 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 CI' E' BL' NO3, NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals 2MI20728 10 0188 yd eHA9 EDB (Method 504.1) 8081 Pesticides/8082 PCB's 18/ SAMEDAY Remarks: (PH:8015D(GRO / DRO / MRO) WIBE / TMB's (8021) X3T8 1000 14 2 8 600 Cooler Temp(including CF): 1.0-0.2 = 0.8(°C) Time HEAL No. Turn-Around Time: SAWE DAY 0/100/ J00/ 3 email or Fax#: XSUMMES @ ensolyM.com Project Manager: KSummes Crawford 6CB#1F Project #: See nextes Preservative Sampler: 120 eachi 000 4 Yes Type Project Name: □ Standard # of Coolers: x Yes Jor Type and # Container Received by: Received by On Ice: Chain-of-Custody Record

Possible of Custody Record

Client: Ensolum LLC

Suise Mailing Address: 606 S. R.O. Grande Suide A □ Level 4 (Full Validation) Sample Name □ Az Compliance JAN KHALL Relinquished by □ Other Matrix QA/QC Package: □ EDD (Type) Time Accreditation: Standard Time: Fime: Astoc □ NELAC Phone #: 2331 233 Date Date:



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

February 11, 2021

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

FAX:

RE: Crawford G CB #1E OrderNo.: 2102430

#### 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 Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

 Project:
 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 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 ORGA	NICS				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 SHORT LIST	-				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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Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

 Project:
 Crawford G CB #1E
 Collection Date: 2/8/2021 9:05:00 AM

 Lab ID:
 2102430-002
 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	: <b>VP</b>
Chloride	ND	61	mg/Kg	20	2/9/2021 11:42:41 AM	57998
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: 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 ORGA	NICS				Analyst	: 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 LIST	-				Analyst	: 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

Page 2 of 13

Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 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	<b>.</b>				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 ORGA	ANICS				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	Г				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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Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-2

 Project:
 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 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 ORGA	NICS				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
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	ı				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

- 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 4 of 13

Date Reported: 2/11/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-3

 Project:
 Crawford G CB #1E
 Collection Date: 2/8/2021 9:20:00 AM

 Lab ID:
 2102430-005
 Matrix: MEOH (SOIL)
 Received Date: 2/9/2021 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 2/9/2021 12:19:53 PM 57998 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: 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 ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.2 mg/Kg 2/9/2021 12:39:40 PM 57993 Motor Oil Range Organics (MRO) ND 1 2/9/2021 12:39:40 PM 57993 46 mg/Kg Surr: DNOP 118 70-130 %Rec 2/9/2021 12:39:40 PM 57993 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 2/9/2021 2:13:30 PM A75172 Benzene 0.017 mg/Kg Toluene ND 0.033 mg/Kg 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 2/9/2021 2:13:30 PM A75172 Surr: 1,2-Dichloroethane-d4 80.8 70-130 %Rec 2/9/2021 2:13:30 PM A75172 Surr: 4-Bromofluorobenzene 98.6 70-130 %Rec 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 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

- 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 5 of 13

Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-4

 Project:
 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	: VP
Chloride	ND	59	mg/Kg	20	2/9/2021 12:32:18 PM	57998
EPA METHOD 8015D MOD: GASOLINE RANGE	<u> </u>				Analyst	: 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 ORGA	ANICS				Analyst	: 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 SHORT LIST	Г				Analyst	: 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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Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-5

 Project:
 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	<u> </u>				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 RANGE ORGA	ANICS				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 SHORT LIST	Γ				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

- 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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Date Reported: 2/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-6

 Project:
 Crawford G CB #1E
 Collection Date: 2/8/2021 9:35:00 AM

 Lab ID:
 2102430-008
 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 12:57:08 PM	57998
EPA METHOD 8015D MOD: GASOLINE RANGE	<b>≣</b>				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 ORG	ANICS				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
<b>EPA METHOD 8260B: VOLATILES SHORT LIS</b>	Т				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

- 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.

WO#: **2102430** *11-Feb-21* 

Client: ENSOLUM

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

Sample ID: MB-57998 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57998 RunNo: 75158

Prep Date: 2/9/2021 Analysis Date: 2/9/2021 SeqNo: 2654773 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-57998 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57998 RunNo: 75158

Prep Date: 2/9/2021 Analysis Date: 2/9/2021 SeqNo: 2654774 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.6 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

Page 9 of 13

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2102430 11-Feb-21

**Client: ENSOLUM** 

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

Sample ID: MB-57993 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 57993 RunNo: 75160 Prep Date: 2/9/2021 Analysis Date: 2/9/2021 SeqNo: 2653623 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 70 10.00 101 130

Sample ID: LCS-57993 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57993 RunNo: 75160

Prep Date: 2/9/2021 Analysis Date: 2/9/2021 SeqNo: 2653625 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 68.9 50 50.00 101 141 Surr: DNOP 5.0 5.000 99.4 70 130

Sample ID: 2102430-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-6 Batch ID: 57993 RunNo: 75160

Prep Date: 2/9/2021 Analysis Date: 2/9/2021 SeqNo: 2653809 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 44 45.70 3.852 87.4 15 184

Surr: DNOP 4.5 4.570 99.0 70 130

Sample ID: 2102430-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-6 Batch ID: 57993 RunNo: 75160

Prep Date: 2/9/2021 Analysis Date: 2/9/2021 SeqNo: 2654918 Units: mg/Kg

LowLimit %RPD Result PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 50 9.8 48.78 3.852 95.5 15 184 14.1 23.9 Surr: DNOP 4.878 5.2 106 70 130 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 13

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102430** *11-Feb-21* 

Client: ENSOLUM

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

Sample ID: 100ng lcs	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batch	n ID: <b>A7</b> :	5172	F	RunNo: <b>7</b>	5172				
Prep Date:	Analysis D	ate: <b>2/</b> 9	9/2021	9	SeqNo: 2	654164	Units: mg/K	ίg		
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: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: <b>A7</b>	5172	F	RunNo: <b>7</b>	5172				
Prep Date:	Analysis [	Date: <b>2/</b>	9/2021	S	SeqNo: 2	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	SampT	Гуре: МS	5	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: S-8	Batcl	h ID: <b>A7</b>	5172	F	RunNo: 7	5172				
Prep Date:	Analysis D	Date: <b>2/</b> 9	9/2021	9	SeqNo: 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	SampT	ype: <b>MS</b>	SD	Test	Code: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: S-8	Batch	ID: <b>A7</b>	5172	R	unNo: <b>7</b>	5172				
Prep Date:	Analysis D	ate: 2/	9/2021	S	eqNo: 20	654840	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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:

- \* 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

- 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.

WO#: **2102430** 

11-Feb-21

Client: ENSOLUM

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

Sample ID: 2102430-003amsd	SampT	уре: <b>М</b> \$	SD	Tes	tCode: <b>EF</b>	PA Method	8260B: Volat	iles Short	List	
Client ID: S-8	Batch	ID: <b>A7</b>	5172	R	RunNo: 7	5172				
Prep Date:	Analysis D	ate: <b>2/</b>	9/2021	S	SeqNo: 26	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	

#### 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.

SampType: MBLK

WO#: 2102430 11-Feb-21

**Client: ENSOLUM** 

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

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: **B75172** RunNo: 75172 Prep Date: Analysis Date: 2/9/2021 SeqNo: 2654176 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 25.00 Gasoline Range Organics (GRO) 21 5.0 Λ 85.4 70 130 Surr: BFB 480 500.0 96.0 70 130 Sample ID: mb1 TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: **B75172** RunNo: 75172 Prep Date: Analysis Date: 2/9/2021 SeqNo: 2654177 Units: mg/Kg %REC LowLimit Analyte Result PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 470 70 500.0 93.6 130

Sample ID: 2102430-001ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: S-6 Batch ID: **B75172** RunNo: 75172 Prep Date: Analysis Date: 2/9/2021 SeqNo: 2654861 Units: mg/Kg **RPDLimit** Result SPK value SPK Ref Val %REC HighLimit %RPD Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 15 3.5 17.56 0 83.0 49.2 122 Surr: BFB 330 351.1 70 93.1 130

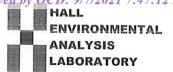
TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: 2102430-001amsd SampType: MSD Client ID: S-6 Batch ID: **B75172** RunNo: 75172 Prep Date: Analysis Date: 2/9/2021 SeqNo: 2654862 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual 122 Gasoline Range Organics (GRO) 14 3.5 17.56 80.6 49.2 2.88 20 Surr: BFB 330 351.1 92.6 70 130 0 0

#### Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

## Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: **ENSOLUM** Work Order Number: 2102430 RcptNo: 1 Received By: **Desiree Dominguez** 2/9/2021 7:50:00 AM Completed By: Cheyenne Cason 2/9/2021 8:04:41 AM Reviewed By: OL 12/00/20 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🗸 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? No 🗌 Yes 8. Was preservative added to bottles? No V NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA 🗸 Yes 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 upless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: DAD 29121 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good Yes

S	ain-	of-Cu	Chain-of-Custody Record	Turn-Around Time:	1	100 % South			_	(			į	(			-	Receiv
Client:	B	Ensolum	"m 666.	□ Standard	∯ Rush	2-9-21				HALL			<b>7</b>			HALL ENVIRONMENTAL ANALYSIS LABORATOR	. >	ed by
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Suit	F A	9	7410	Project #:	,			Tel.	Tel. 505-345-3975	45-39	10	Fa	505	Fax 505-345-4107	107	0	5	7/20
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				Cooler Temp(including CF);	including CF): 3. 9	(+0.22 4.1 (°C)	ΤM	3335		y 83					- 1			
Date Tin	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	NEX /	08:H9T 99 1808	EDB (M	d sHA9	RCRA 8	CI, F, E	8) 0728	O lstoT				
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Date: Time: 2/8/2, 186	2	Relinquished by:	Jaso	Received by:	Via: Cour <i>ùu</i>	Date Time 2/4/24 ユデジ		, d	E'S	4N53376	3	26			7	3	Ž	ige 94 oj
If nec	sessary, s	amples subi	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	ontracted to other ac	credited laboratorie	s. This serves as notice of this	possib	ility. Any	sub-con	racted	data wil	pe cle	arly nota	ated on the	e analytica	l report.		f <sub>120</sub>

Received by OCD: 9/7/2021 7.	47:12 AM			Page 95 of 120
HALL ENVIRONMENTAL ANALYSIS LABORATOR) www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request				Sept.
ENVIRONME YSIS LABOR/ environmental.com Albuquerque, NM 87109 Fax 505-345-4107 allysis Request			- <u> </u>	nalytica
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NVIRONN SIS LABOI vironmental.com buquerque, NM 871 Fax 505-345-4107	(AOV-im98) 07S8			75 76 76 11y notatee
IALL ENVIRON INALYSIS LABC www.hallenvironmental.com ns NE - Albuquerque, NM 8 5-3975 Fax 505-345-41 Analysis Request	(AOV) 09S8			33 (S. 2.)
L E L I I I I I I I I I I I I I I I I I	21, F, Br, NO3, NO2, PO4, SO4		xxx	a will b
HALL ANAL www.hal 4901 Hawkins NE - Tel. 505-345-3975	2AHs by 8310 or 8270SIMS 3CRA 8 Metals			ted data
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16085000 3-9-5 613 741E	No HEAL No.	204	0007	Date Time $\frac{2/8}{21} = \frac{1}{34}$ Date Time $\frac{2/9/21}{1} = \frac{2}{3}$ This serves as notice of this
Rush (3)	400 Hos	120	(10)	Via:  Via:  Via:  Lowriel  coredited laboratories.
Turn-Around Time:  ☐ Standard Project Name:  ☐ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Project Manager:  Sampler:  On Ice:  Cooler Temp(motuding cF):  Container  Type  Type  Type  Type  Type	1 452		Received by: Received by:
Chain-of-Custody Record  t: Ensolan, LLL  ig Address: Lob S R. is Grande  Soit A 874110  e#:	☐ Level 4 (Full Validation) ☐ Az Compliance ☐ Other ☐ Matrix Sample Name			Time: Relinquished by:    1377
Chain-of-C			935	Time: ReTime: Ref
Client:  Mailing Ad	email or Fax#:  QA/QC Package:  Standard Accreditation:  NELAC  Date Time		3/2/2	Date: 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

February 16, 2021

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

FAX:

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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/16/2021

## Hall Environmental Analysis Laboratory, Inc.

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
 Received Date: 2/13/2021 9:40:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	:: 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	70-130	%Rec	1	2/15/2021 12:52:42 PM	C75306
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	2/15/2021 12:52:42 PM	C75306
Surr: Dibromofluoromethane	108	70-130	%Rec	1	2/15/2021 12:52:42 PM	C75306
Surr: Toluene-d8	101	70-130	%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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 3

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102696** 

16-Feb-21

Client: ENSOLUM
Project: Crawford 6C B 1E

Sample ID: 100ng lcs	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batch	ID: <b>C7</b>	5306	F	RunNo: 7	5306				
Prep Date:	Analysis D	ate: <b>2/</b>	15/2021	8	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	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8260: Volatile	s Short L	.ist	
Client ID: PBW	Batch	n ID: <b>C7</b>	5306	F	RunNo: <b>7</b>	5306				
Prep Date:	Analysis D	ate: <b>2/</b>	15/2021	S	SeqNo: 20	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: <b>2102696-001a ms</b>	SampT	ype: MS	3	Tes	tCode: El	PA Method	8260: Volatile	s Short L	ist	
Client ID: GW-1	Batch	n ID: <b>C7</b>	5306	F	RunNo: 7	5306				
Prep Date:	Analysis D	oate: 2/	15/2021	5	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 msc	<b>I</b> SampT	ype: <b>MS</b>	SD	Tes	tCode: El	PA Method	8260: Volatile	s Short L	ist	
Client ID: GW-1	Batch	1D: <b>C7</b>	5306	F	RunNo: <b>7</b>	5306				
Prep Date:	Analysis D	ate: <b>2/</b>	15/2021	S	SeqNo: 20	661339	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	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

- 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 2 of 3

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102696** 

16-Feb-21

Client: ENSOLUM
Project: Crawford 6C B 1E

Sample ID: 2102696-001a m	ı <b>sd</b> SampT	уре: М	SD	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: GW-1	Batcl	n ID: <b>C7</b>	5306	F	RunNo: <b>7</b>	5306				
Prep Date:	Analysis D	Date: 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 3 of 3

Page 100 of 120



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com Client Name: **ENSOLUM** Work Order Number: 2102696 RcptNo: 1 Received By: Isaiah Ortiz 2/13/2021 9:40:00 AM Completed By: Isaiah Ortiz 2/13/2021 10:01:41 AM ( 02/13/2021 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? No 🗌 Yes 🗸 No 🗸 8. Was preservative added to bottles? Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA 🗸 Yes Yes  $\square$ No 🗸 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? No 🗌 Yes 🗸 14. Were all holding times able to be met? Checked by: Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Not Present			-

Received by OCD: 9/7/2021 7	47:12 AM	Page 101	1 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	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 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)	р. д.	13 21 094% This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
4901 Ha	8081 Pesticides/8082 PCB's	200	Any sub
\$4 L	BTEX / MTBE / TMB's (8021) (OAM / OAO / OAD)03:N9T	<del>-   -   -   -   -   -   -   -   -   -  </del>	ossibility.
Turn-Around Time: 111098 Same  □ Standard ▼Rush 3-15-31  Project Name:  Class Ford & & B # 1 E  Project #:	Project Manager:  ## Summers  Sampler: ## D'#Bont, On Ice: ## Yes □ No ## of Coolers: ( Cooler Temp(including CF):                         Container   Preservative   HEAL No. Type and # Type	1ype  1ype  1ype  1/2/2   1/67  1/2/2   1/67  Via:  Date  Time  Via:  Date  Time	
Chain-of-Custody Record  Client: Ensolum, LLC.  Mailing Address: Lot S B.O Grande  Soit A 87410  Phone #:	email or Fax#:  CoA/QC Package:  CoA/QC	Time: Relinquished by:	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

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

#### 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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

## **Analytical Report**

Lab Order 2102967

Date Reported: 2/26/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: TW-1

 Project:
 Crawford GCB #1E
 Collection Date: 2/22/2021 10:20:00 AM

 Lab ID:
 2102967-001
 Matrix: AQUEOUS
 Received Date: 2/23/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
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
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	2/23/2021 10:13:17 AM	R75491
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	2/23/2021 10:13:17 AM	R75491
Sulfate	45	2.5		mg/L	5	2/23/2021 10:13:17 AM	R75491
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	JRR
Conductivity	420	10		µmhos/c	: 1	2/25/2021 11:44:46 AM	R75552
SM2320B: ALKALINITY						Analyst:	JRR
Bicarbonate (As CaCO3)	169.3	20.00		mg/L Ca	1	2/25/2021 11:44:46 AM	R75552
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	2/25/2021 11:44:46 AM	R75552
Total Alkalinity (as CaCO3)	169.3	20.00		mg/L Ca	1	2/25/2021 11:44:46 AM	R75552
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	МН
Total Dissolved 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 METHOD 200.7: METALS						Analyst:	ELS
Calcium	68	1.0		mg/L	1	2/24/2021 9:39:32 AM	58277
Magnesium	11	1.0		mg/L	1	2/24/2021 9:39:32 AM	58277
Potassium	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 METHOD 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
Ethylbenzene	ND	1.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
1,2-Dichloroethane (EDC)	ND	1.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
1,2-Dibromoethane (EDB)	ND	1.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
Naphthalene	ND	2.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
1-Methylnaphthalene	ND	4.0		μg/L	1	2/23/2021 5:38:55 PM	R75496
2-Methylnaphthalene	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
Bromobenzene	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

- 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

Lab ID:

## **Analytical Report**

Lab Order 2102967

#### Date Reported: 2/26/2021

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: ENSOLUM** Client Sample ID: TW-1

Collection Date: 2/22/2021 10:20:00 AM **Project:** Crawford GCB #1E 2102967-001 Matrix: AQUEOUS Received Date: 2/23/2021 7:35:00 AM

Result **RL Oual Units DF** Date Analyzed Analyses **Batch EPA METHOD 8260B: VOLATILES** Analyst: JMR 2/23/2021 5:38:55 PM ND Bromodichloromethane 1.0 μg/L 1 R75496 **Bromoform** ND 1.0 μg/L 2/23/2021 5:38:55 PM R75496 ND Bromomethane 3.0 μg/L 1 2/23/2021 5:38:55 PM R75496 2-Butanone ND 10 μg/L 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 ND Chlorobenzene 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 2/23/2021 5:38:55 PM R75496 μg/L 1 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 1 2/23/2021 5:38:55 PM R75496 μg/L NΠ 1.0 cis-1,3-Dichloropropene 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 ND 2/23/2021 5:38:55 PM 1,3-Dichlorobenzene 1.0 μg/L 1 R75496 1,4-Dichlorobenzene ND 1.0 μg/L 1 2/23/2021 5:38:55 PM R75496 ND Dichlorodifluoromethane 1.0 μg/L 1 2/23/2021 5:38:55 PM R75496 ND 1.0 2/23/2021 5:38:55 PM 1,1-Dichloroethane μg/L 1 R75496 ND 1,1-Dichloroethene 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 ND 1,1-Dichloropropene 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 10 µg/L 1 2/23/2021 5:38:55 PM R75496 Isopropylbenzene ND 1.0 μg/L 1 2/23/2021 5:38:55 PM R75496 4-Isopropyltoluene ND 1.0 μg/L 1 2/23/2021 5:38:55 PM R75496 4-Methyl-2-pentanone ND 10 μg/L 2/23/2021 5:38:55 PM R75496 1 Methylene Chloride ND 3.0 μg/L 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 2/23/2021 5:38:55 PM R75496 sec-Butylbenzene ND 1.0 1 2/23/2021 5:38:55 PM µg/L 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 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
- Н Holding times for preparation or analysis exceeded
- ND
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

Page 2 of 15

Surr: Toluene-d8

# Analytical Report Lab Order 2102967

Date Reported: 2/26/2021

2/23/2021 5:38:55 PM

R75496

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: TW-1

 Project:
 Crawford GCB #1E
 Collection Date: 2/22/2021 10:20:00 AM

 Lab ID:
 2102967-001
 Matrix: AQUEOUS
 Received Date: 2/23/2021 7:35:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 8260B: VOLATILES** Analyst: JMR 2/23/2021 5:38:55 PM ND 1.1.2.2-Tetrachloroethane 2.0 μg/L 1 R75496 Tetrachloroethene (PCE) ND 1.0 μg/L 2/23/2021 5:38:55 PM R75496 trans-1,2-DCE ND 1.0 μg/L 2/23/2021 5:38:55 PM R75496 1 trans-1,3-Dichloropropene μg/L 2/23/2021 5:38:55 PM ND 1.0 R75496 1,2,3-Trichlorobenzene ND 1.0 μg/L 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 ND 1,1,1-Trichloroethane 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 2/23/2021 5:38:55 PM R75496 μg/L 1 1,2,3-Trichloropropane ND 2.0 μg/L 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 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 2/23/2021 5:38:55 PM R75496 Surr: Dibromofluoromethane 98.0 70-130 %Rec 1 2/23/2021 5:38:55 PM R75496

102

70-130

%Rec

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 3 of 15

## **Analytical Report**

Lab Order **2102967** 

Date Reported: 2/26/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: TW-2

 Project:
 Crawford GCB #1E
 Collection Date: 2/22/2021 10:50:00 AM

 Lab ID:
 2102967-002
 Matrix: AQUEOUS
 Received Date: 2/23/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
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
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	2/23/2021 10:37:59 AM	R75491
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	2/23/2021 10:37:59 AM	R75491
Sulfate	59	2.5		mg/L	5	2/23/2021 10:37:59 AM	R75491
SM2510B: SPECIFIC CONDUCTANCE						Analyst	JRR
Conductivity	470	10		µmhos/c	: 1	2/25/2021 12:04:44 PM	R75552
SM2320B: ALKALINITY						Analyst	JRR
Bicarbonate (As CaCO3)	178.5	20.00		mg/L Ca	1	2/25/2021 12:04:44 PM	R75552
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	2/25/2021 12:04:44 PM	R75552
Total Alkalinity (as CaCO3)	178.5	20.00		mg/L Ca	1	2/25/2021 12:04:44 PM	R75552
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	MH
Total Dissolved Solids	292	40.0	D	mg/L	1	2/24/2021 3:14:00 PM	58287
SM4500-H+B / 9040C: PH						Analyst	JRR
рН	7.67		Н	pH units	1	2/25/2021 12:04:44 PM	R75552
EPA METHOD 200.7: METALS						Analyst	ELS
Calcium	92	1.0		mg/L	1	2/24/2021 9:42:31 AM	58277
Magnesium	14	1.0		mg/L	1	2/24/2021 9:42:31 AM	58277
Potassium	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 METHOD 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
Ethylbenzene	ND	1.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
1,2-Dichloroethane (EDC)	ND	1.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
1,2-Dibromoethane (EDB)	ND	1.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
Naphthalene	ND	2.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
1-Methylnaphthalene	ND	4.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
2-Methylnaphthalene	ND	4.0		μg/L	1	2/23/2021 6:07:41 PM	R75496
Acetone	ND	10		μg/L	1	2/23/2021 6:07:41 PM	R75496
Bromobenzene	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

- 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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**CLIENT: ENSOLUM** 

## **Analytical Report**

Lab Order **2102967**Date Reported: **2/26/2021** 

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TW-2

**Project:** Crawford GCB #1E Collection Date: 2/22/2021 10:50:00 AM

**Lab ID:** 2102967-002 **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/L	1	2/23/2021 6:07:41 PM	R75496
4-Chlorotoluene	ND	1.0	μg/L	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	μg/L	1	2/23/2021 6:07:41 PM	R75496
Dibromochloromethane	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496
Dibromomethane	ND	1.0	μg/L	1	2/23/2021 6:07:41 PM	R75496
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
- 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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Surr: Toluene-d8

# **Analytical Report**Lab Order **2102967**

Date Reported: 2/26/2021

2/23/2021 6:07:41 PM

R75496

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: TW-2

 Project:
 Crawford GCB #1E
 Collection Date: 2/22/2021 10:50:00 AM

 Lab ID:
 2102967-002
 Matrix: AQUEOUS
 Received Date: 2/23/2021 7:35:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 8260B: VOLATILES** Analyst: JMR 2/23/2021 6:07:41 PM ND 1.1.2.2-Tetrachloroethane 2.0 μg/L 1 R75496 Tetrachloroethene (PCE) ND 1.0 μg/L 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 μg/L 2/23/2021 6:07:41 PM ND 1.0 R75496 1,2,3-Trichlorobenzene ND 1.0 μg/L 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 ND 1,1,1-Trichloroethane 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 2/23/2021 6:07:41 PM R75496 μg/L 1 1,2,3-Trichloropropane ND 2.0 μg/L 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 2/23/2021 6:07:41 PM R75496 Surr: 1,2-Dichloroethane-d4 91.2 70-130 1 2/23/2021 6:07:41 PM R75496 %Rec Surr: 4-Bromofluorobenzene 96.8 70-130 %Rec 2/23/2021 6:07:41 PM R75496 Surr: Dibromofluoromethane 96.2 70-130 %Rec 1 2/23/2021 6:07:41 PM R75496

102

70-130

%Rec

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.

2102967 26-Feb-21

Qual

WO#:

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: MB-58277 SampType: MBLK TestCode: EPA Method 200.7: Metals

Client ID: PBW Batch ID: 58277 RunNo: 75498

Prep Date: 2/23/2021 Analysis Date: 2/24/2021 SeqNo: 2668198 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: 58277 RunNo: 75498

Prep Date: 2/23/2021 Analysis Date: 2/24/2021 SeqNo: 2668200 Units: mg/L

POI SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Calcium ND 1.0 0.5000 0 104 50 150 0 102 ND 0.5000 50 150 Magnesium 1.0 Potassium ND 1.0 0.5000 0 98.2 50 150 ND 0.5000 0 106 50 Sodium 1.0 150

Sample ID: LCS-58277 SampType: LCS TestCode: EPA Method 200.7: Metals

Client ID: LCSW Batch ID: 58277 RunNo: 75498

Prep Date: 2/23/2021 Analysis Date: 2/24/2021 SeqNo: 2668202 Units: mg/L PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 51 1.0 50.00 0 101 85 115 Calcium Magnesium 51 1.0 50.00 0 102 85 115 0 104 Potassium 52 50.00 85 1.0 115 Sodium 52 1.0 50.00 0 104 85 115

### 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.

WO#: **2102967 26-Feb-21** 

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: MB-MH	SampType: mblk		Tes	TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: R75491		RunNo: <b>75491</b>							
Prep Date:	Analysis Date: 2/23/2021		5	SeqNo: 2667957		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 SampType: Ics				TestCode: EPA Method 300.0: Anions						
Client ID: LCSW	lient ID: LCSW Batch ID: R75491				RunNo: <b>7</b>	5491				
Prep Date:	Analysis D	Date: <b>2/</b>	23/2021	5	SeqNo: <b>2667958</b>		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			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.6	90	110			
Sulfate	9.7	0.50	10.00	0	97.2	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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2102967** 

26-Feb-21

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: 100ng lcs	SampT	SampType: LCS TestCode: EPA Metho					I 8260B: VOLATILES					
Client ID: LCSW	Batch	Batch ID: R75496 RunNo: 7				5496						
Prep Date:	Analysis D	oate: <b>2/</b>	23/2021	SeqNo: 2668162			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					
Toluene	19	1.0	20.00	0	96.5	70	130					
Chlorobenzene	20	1.0	20.00	0	101	70	130					
1,1-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: mb1	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES			
Client ID: PBW	Batch	ID: <b>R7</b>	5496	F	RunNo: 7	5496					
Prep Date:	Analysis Da	ate: <b>2/</b> 2	23/2021	8	SeqNo: 2	668163	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0		•			•		•		

Ethylbenzene	ND	1.0	
Methyl tert-butyl ether (MTBE)	ND	1.0	
1,2,4-Trimethylbenzene	ND	1.0	
1,3,5-Trimethylbenzene	ND	1.0	
1,2-Dichloroethane (EDC)	ND	1.0	
1,2-Dibromoethane (EDB)	ND	1.0	
Naphthalene	ND	2.0	
1-Methylnaphthalene	ND	4.0	
2-Methylnaphthalene	ND	4.0	
Acetone	ND	10	
Bromobenzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	3.0	
2-Butanone	ND	10	
Carbon disulfide	ND	10	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	2.0	
Chloroform	ND	1.0	
Chloromethane	ND	3.0	
2-Chlorotoluene	ND	1.0	

ND

1.0

#### Qualifiers:

Toluene

- 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

- 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.

WO#: **2102967 26-Feb-21** 

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PRW Public 75406

					D 11			-		
Client ID: PBW	Batch	n ID: <b>R7</b>	5496		RunNo: 7					
Prep Date:	Analysis D	ate: <b>2/</b> 2	23/2021	S	SeqNo: 26	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								
• •										

#### 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 10 of 15

## Hall Environmental Analysis Laboratory, Inc.

2102967 26-Feb-21

WO#:

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: mb1 Client ID: PBW	SampType: MBLK Batch ID: R75496			Tes F						
Prep Date:	Analysis D	ate: 2/	23/2021	SeqNo: <b>2668163</b>			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.9	70	130			
Surr: Toluene-d8	10		10.00		101	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

Page 11 of 15

### Hall Environmental Analysis Laboratory, Inc.

100

WO#: 2102967

26-Feb-21

**Client: ENSOLUM** 

Conductivity

**Project:** Crawford GCB #1E

Sample ID: Ics-1 99.5uS eC SampType: Ics TestCode: SM2510B: Specific Conductance

Client ID: LCSW Batch ID: R75552 RunNo: 75552

Prep Date: Analysis Date: 2/25/2021 SeqNo: 2670482 Units: µmhos/cm

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0

102

85

115

99.50 Sample ID: 2102967-001B Dup SampType: dup TestCode: SM2510B: Specific Conductance

Client ID: TW-1 Batch ID: R75552 RunNo: 75552

10

Prep Date: Analysis Date: 2/25/2021 SeqNo: 2670485 Units: µmhos/cm

SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte HighLimit %RPD Qual

420 Conductivity 10 0.214 20

#### 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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 12 of 15

### Hall Environmental Analysis Laboratory, Inc.

7.76

WO#: **2102967** 

Н

0.257

26-Feb-21

Client: ENSOLUM

рΗ

**Project:** Crawford GCB #1E

Sample ID: 2102967-001B Dup SampType: dup TestCode: SM4500-H+B / 9040C: pH

Client ID: **TW-1** Batch ID: **R75552** RunNo: **75552** 

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

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 13 of 15

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2102967** 

26-Feb-21

**Client:** ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: mb-1 alk SampType: mblk TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R75552 RunNo: 75552

Prep Date: Analysis Date: 2/25/2021 SeqNo: 2670404 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) ND 20.00

Sample ID: Ics-1 alk SampType: Ics TestCode: SM2320B: Alkalinity

Client 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 RPDLimit 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: 75552

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 RPDLimit 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: 75552

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 RPDLimit 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: 75552

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 RPDLimit Qual

Total Alkalinity (as CaCO3) 73.60 20.00 80.00 0 92.0 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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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2102967** 

26-Feb-21

Client: ENSOLUM

**Project:** Crawford GCB #1E

Sample ID: MB-58287 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 58287 RunNo: 75511

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 Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-58287 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 58287 RunNo: 75511

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 Qual

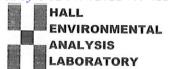
Total Dissolved Solids 1020 20.0 1000 0 102 80 120

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Received By: Juan Rojas  Completed By: Cheyenne Cason	2/23/2021 7:35: 2/23/2021 8:01:	00 AM	Guaran g	
Completed By: Cheyenne Cason	2/23/2021 8:01:		1 2	
		47 AM		
Reviewed By: SR 2/23/21				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In				
3. Was an attempt made to cool the samples	?	Yes 🗸	No 🗌	NA 🗆
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌	
6. Sufficient sample volume for indicated test(	s)?	Yes 🗸	No 🗌	
7. Are samples (except VOA and ONG) prope	ly preserved?	Yes 🗸	No 🗌	
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗆
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes 🗸	No 🗌	NA 🗆
10. Were any sample containers received broke	en?	Yes	No 🗸	4.6
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗌	# of preserved bottles checked for pH: (<2 or>12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗆	Adjusted?
3. Is it clear what analyses were requested?	custody.	Yes 🗸	No 🗆	700
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	Checked by: SPA 2.73
Special Handling (if applicable)				
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗸
Person Notified:	Da	ite:	And the second distribution and second of	
By Whom:	Via	a: eMail F	Phone  Fax	☐ In Person
Regarding: Client Instructions:				
16. Additional remarks:				
17. Cooler Information  Cooler No Temp °C Condition S  1 0.4 Good Ye	eal Intact Seal No	Seal Date	Signed By	

Received by OCD: 9/7/2021 7	:47:12 AM		Page 119 of 120
_ ≿		<del>                                     </del>	6
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request			7-6 7-6 Poor.
ZF	Hg		CEPI 2276 2276 1001 report.
<b>7</b> 50 5	SQT	$\times$	S & S & S & S & S & S & S & S & S & S &
M 87	Cation Anion	$\times$	RB27 NS2
A A B S S S S S S S S S S S S S S S S S	otal Coliform (Present/Absent)		Tum RY- R FE-
FIRONN S LABOI mental.com erque, NM 87 <sup>-</sup> 505-345-4107 Request	(AOV-ima2) 07S	3	1 Key- AFE APE
ENVIRONME YSIS LABOR/ environmental.com Albuquerque, NM 87109 Fax 505-345-4107	ナミロ ハルギ (AOV) 08S		PM-Tun Pay Kay- Nun AFE
HALL ENVIRON ANALYSIS LABC www.hallenvironmental.com kins NE - Albuquerque, NM 845-3975 Fax 505-345-41 Analysis Request	CI' E' BL' NO3' NO5' PO4' SO5		Date Time Remarks: PM-Tum Long (ERD) 2/21 Firm Long (ERD) 2/23/21 7:35  This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
ALL ALL W.ha W.ha	slstals		) data
Www kins I	2AHs by 8310 or 8270SIMS		tracted
HALL ANAL ANAL www.hall 4901 Hawkins NE - Tel. 505-345-3975	(1.405 bodfeM) AG		luo-qr
4901 H	8081 Pesticides/8082 PCB's		]:S T   Si
4 ⊢	-PH:8015D(GRO / DRO / MRO)		Remarks
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ime:	ager: KSUMMALLA DARENTING CF): 6,3 Rincluding CF): 6,3 Tyne	Variens	a: a:
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to	Secensalum.((6)  □ Level 4 (Full V  npliance		
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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

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

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

CONDITIONS

Action 46521

### 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