

District I
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

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.25928 Longitude -103.83742
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Los Medanos	Site Type Tank Battery
Date Release Discovered 02/02/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	36	25S	30E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.57	Volume Recovered (bbls) 4.10
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release Corrosion caused a leak on the bulk separator water dump line. Free fluids were recovered with a vacuum truck. A third-party contractor has been retained for remediation purposes.

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Adrian Baker	Title: SSHE Coordinator
Signature: 	Date: 2/17/22
email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 2/18/2022

NAPP2204835360

Location:	Los Dos Medanos Battery	
Spill Date:	2/2/2022	
Area 1		
Approximate Area =	12085.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	2.69	bbls
Area 2		
Approximate Area =	624.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.88	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	9.57	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	4.10	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 82304

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 82304
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/18/2022

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature:  Date: 05/03/2022

email: adrian.baker@exxonmobil.com Telephone: 432-263-3808

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Adrian Baker Title: Environmental CoordinatorSignature: Adrian Baker Date: 5-3-2022email: adrian.baker@exxonmobil.com Telephone: 432-236-3808**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Adrian Baker Title: Environmental Coordinator
Signature: Adrian Baker Date: 5-3-2022
email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: Robert Hamlet Date: 6/27/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Robert Hamlet Date: 6/27/2022



May 3, 2022

District II
New Mexico Oil Conservation Division
811 S. First Street
Artesia, New Mexico 88210

**Re: Remediation Work Plan
Los Medanos
Incident Number NAPP2204835360
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared the following Remediation Work Plan to document the site assessment and soil sampling activities completed to date and propose a work plan to address the impacted soil identified at the Los Medanos tank battery (Site). The purpose of the site assessment and soil sampling activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water at the Site. The following Work Plan proposes to install a soil boring to investigate depth to water to confirm the Closure Criteria at the Site and excavate the impacted soil.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 36, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.25928° N, 103.83742° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On February 2, 2022, corrosion caused a leak on the bulk separator water dump line, which resulted in the release of 9.57 barrels (bbls) of produced water onto the well pad and into the adjacent pasture where fluids pooled. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 4.10 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on February 17, 2022. The release was assigned Incident Number NAPP2204835360.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is United

States Geological Suvery (USGS) well 321544103515202 located approximately 1.6 miles west of the Site. The groundwater well has a reported depth to groundwater of 417 feet bgs and a total depth of 563 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 2,133 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 13, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ten preliminary soil samples (SS01 through SS10) were collected within and around the release extent from a depth of 0.5 feet bgs. Preliminary soil samples SS01 through SS05 were collected within the release extent on pad, sample SS06 was collected within the pasture release area, and samples SS07 through SS10 were collected around the release extent to confirm the lateral extent. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

On April 20, 2022 delineation activities were conducted at the Site to assess the vertical extent of impacted soil. Potholes PH01 through PH05 were advanced via track mounted backhoe within the release extent on pad at the locations of preliminary soil samples SS01 through SS05. Borehole BH01 was advanced via hand auger within the release extent in the pasture at the location of preliminary soil

sample SS06. The delineation potholes and borehole were advanced a depth of 4 feet bgs. Discrete delineation soil samples were collected from each pothole and borehole at depths ranging from 1-foot bgs to 4 feet bgs. Soil from the potholes and borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes and borehole were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil sample locations are depicted on Figure 2.

LABORATORY ANALYTICAL RESULTS

Benzene, BTEX, TPH-GRO/TPH-DRO, and TPH concentrations were compliant with the most stringent Table 1 Closure Criteria in preliminary samples SS01 through SS10 and in all delineation soil samples from borehole BH01 and potholes PH01 through PH05. No hydrocarbon impacted soil was identified as a result of the release.

Laboratory analytical results for preliminary soil samples SS01 through SS05, collected within the release extent on pad, indicated that chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil sample SS06, collected in the pasture, indicated that the chloride concentration was compliant with the reclamation standard. Laboratory analytical results for preliminary soil samples SS07 through SS10, collected around the release extent, indicated that chloride concentrations were compliant with the most stringent Table 1 Closure Criteria and successfully defined the lateral extent of the release.

Laboratory analytical results for the delineation soil samples collected from borehole BH01, advanced in the pasture at the location of preliminary soil sample SS06, indicated that chloride concentrations exceeded the reclamation standard at depths ranging from 1-foot to 4 feet bgs.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05 at depths ranging from 1-foot to 4 feet bgs, indicated that chloride concentrations were compliant with most stringent Table 1 Closure Criteria and defined the vertical extent of the impacted soil on pad. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

In order to confirm depth to groundwater is greater than 100 feet bgs at the Site, XTO proposes to advance a soil boring to a depth of 105 feet bgs. The soil boring will be located within 0.5 miles of the Site and a field geologist will log and describe soils continuously. The soil boring will be left open for over 72 hours to allow for equilibration of groundwater levels within the temporary boring casing. After the 72-hour waiting period, depth to groundwater will be assessed and the soil boring will be backfilled following New Mexico Office of the State Engineer (NMOSE) approved procedures. A well record or soil boring log will be included in the follow up Closure Report.

Following confirmation of depth to groundwater, XTO will proceed with excavation of impacted soil on pad to below the established Site Closure Criteria and excavation in the pasture to below the reclamation standard in the top 4 feet. Based on the delineation soil sample analytical results and area of the release extent, an estimated 300 cubic yards of impacted soil will be excavated from the well pad and an estimated 60 cubic yards will be excavated from the adjacent pasture.

Due to the estimated 16,850 square foot size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the frequency of confirmation sampling for the

Los Medanos



excavation floor to be decreased from every 200 square feet (approximately 85 samples) to every 500 square feet (approximately 35 samples). Each 5-point composite floor sample will represent a 500 square foot area. Sidewall samples in areas where the excavation is shallow (less than 1-foot bgs) will be incorporated into the floor sample aliquots. Sidewall samples in areas of the excavation in the pasture which are anticipated to be as deep as 4 feet bgs will be collected at a frequency of every 200 square feet (approximately 4 samples). The soil samples will be handled as described above and analyzed for chloride at Eurofins in Carlsbad, New Mexico. The soil samples will be analyzed for chloride only since no TPH concentrations were detected in any of the samples collected at the Site. The source of the release was produced water and chloride is the established contaminant of concern.

XTO will complete the excavation activities within 90 days of the date of approval of this Work Plan by the NMOCD. The depth to water soil boring will be completed as soon as possible following approval from the surface landowner, receipt of the NMOSE drilling permit, and scheduling with a driller.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "T Morrissey".

Tacoma Morrissey
Senior Geologist

A handwritten signature in black ink, appearing to read "Aimee Cole".

Aimee Cole
Senior Managing Scientist

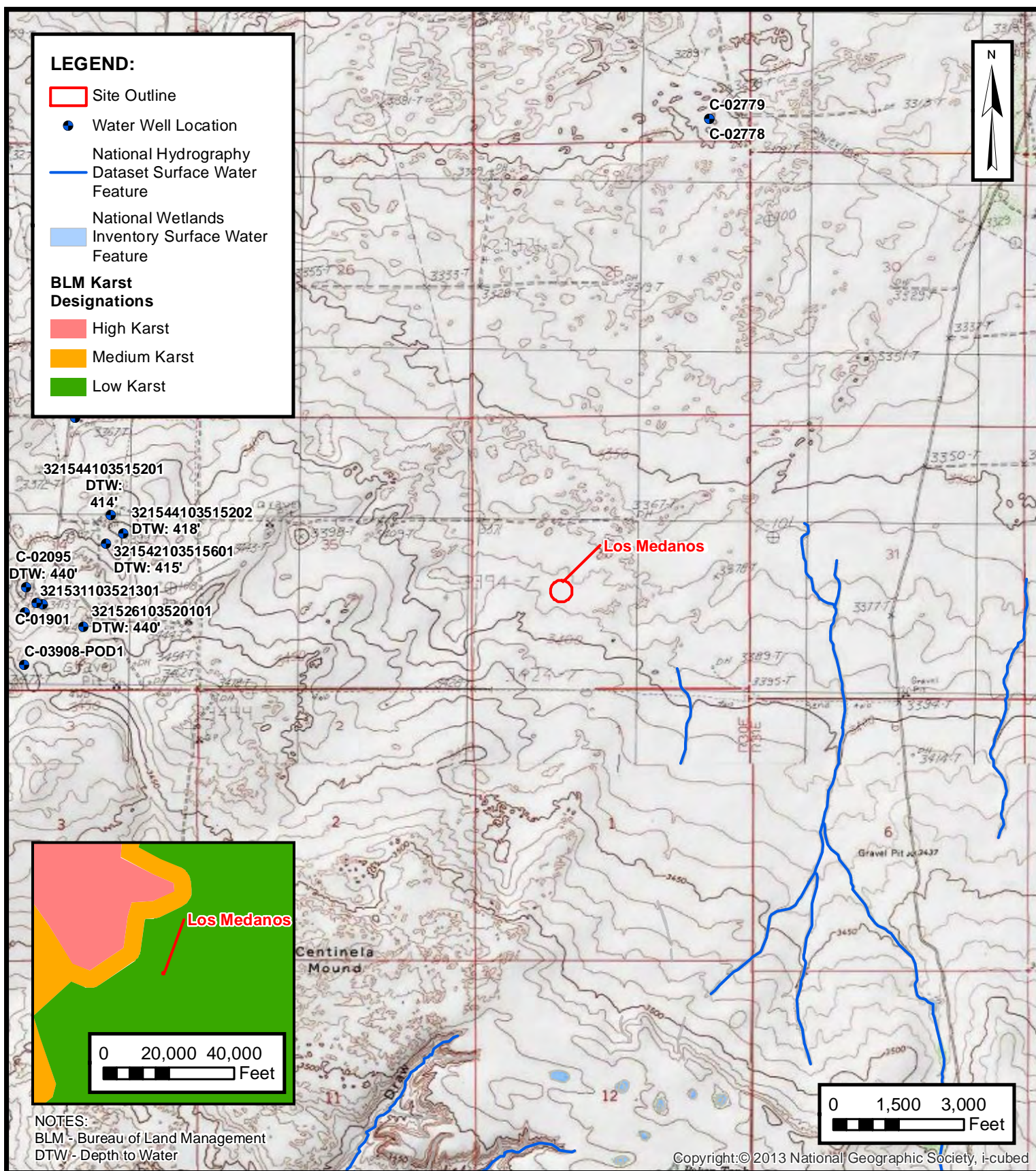
cc: Adrian Baker, XTO
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



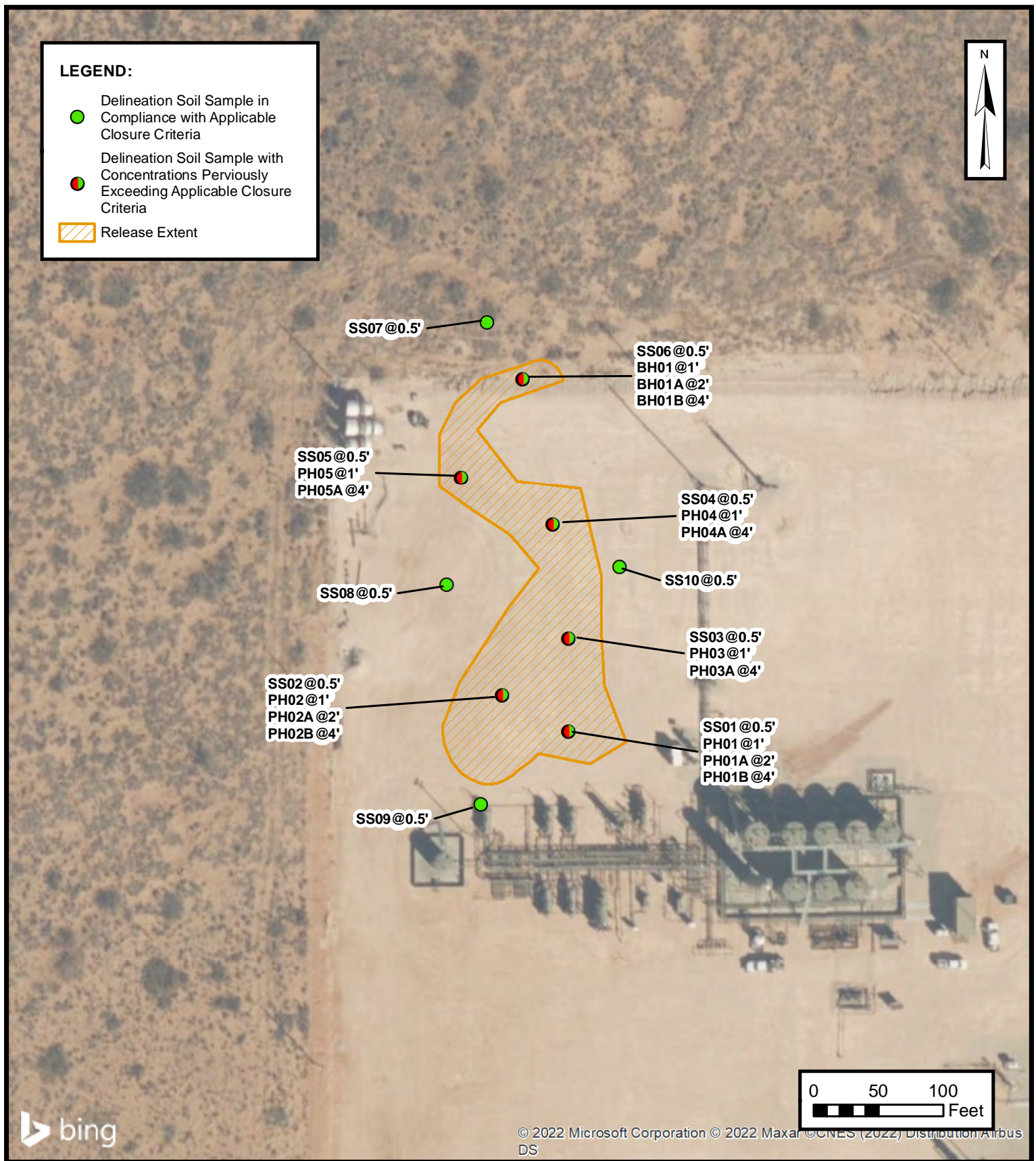
FIGURES



SITE RECEPTOR MAP

XTO ENERGY, INC
 LOS MEDANOS
 NAPP2204835360
 Unit K, Sec 36, T25S, R30E
 Eddy County, New Mexico

FIGURE
1



DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
LOS MEDANOS
NAPP2204835360
Unit K, Sec 36, T23S, R30E
Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Los Medanos
 XTO Energy, Inc.
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Samples										
SS01	04/13/2022	0.5	<0.00200	0.0311	<50.0	<50.0	<50.0	<50.0	<50.0	87,400
SS02	04/13/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	90,600
SS03	04/13/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	23,200
SS04	04/13/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	40,600
SS05	04/13/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	35,000
SS06	04/13/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	529*
SS07	04/20/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6.88
SS08	04/20/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	215
SS09	04/20/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	157
SS10	04/20/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	97.1
Delineation Soil Samples										
BH01	04/20/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,880*
BH01A	04/20/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,290*
BH01B	04/20/2022	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	3,320
PH01	04/20/2022	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	124
PH01A	04/20/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	34.8
PH01B	04/20/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
PH02	04/20/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	30.5
PH02A	04/20/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
PH02B	04/20/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<5.04
PH03	04/20/2022	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	28.6
PH03A	04/20/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	8.6
PH04	04/20/2022	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	36.0
PH04A	04/20/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<4.96
PH05	04/20/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	50.8
PH05A	04/20/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	29.4

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321544103515202

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321544103515202 23S.30E.34.23411 A USGS-7

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°15'44", Longitude 103°51'52" NAD27

Land-surface elevation 3,404 feet above NAVD88

The depth of the well is 563 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

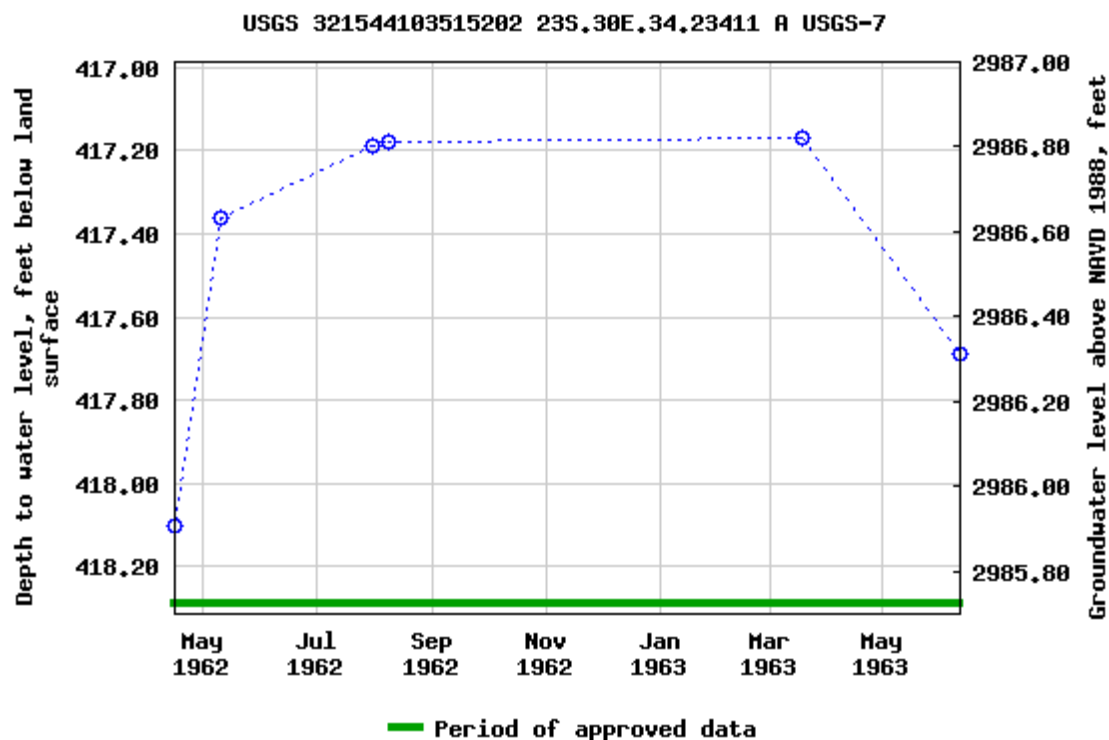
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-04-13 14:20:28 EDT

0.55 0.49 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)	
		(quarters are smallest to largest)					X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	
	C 02095	2	3	34	23S	30E	606337	3569759*
Driller License:		Driller Company:						
Driller Name:		DEPT. OF ENGERY						
Drill Start Date:		Drill Finish Date:		08/31/1960		Plug Date:		
Log File Date:		PCW Rev Date:				Source:		
Pump Type:		Pipe Discharge Size:				Estimated Yield: 100 GPM		
Casing Size: 12.75		Depth Well:		554 feet		Depth Water: 440 feet		

*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.



APPENDIX B

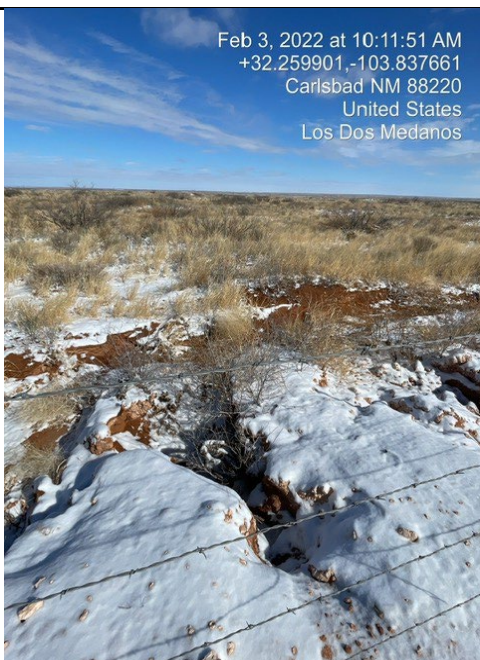
Photographic Log

**Photographic Log**

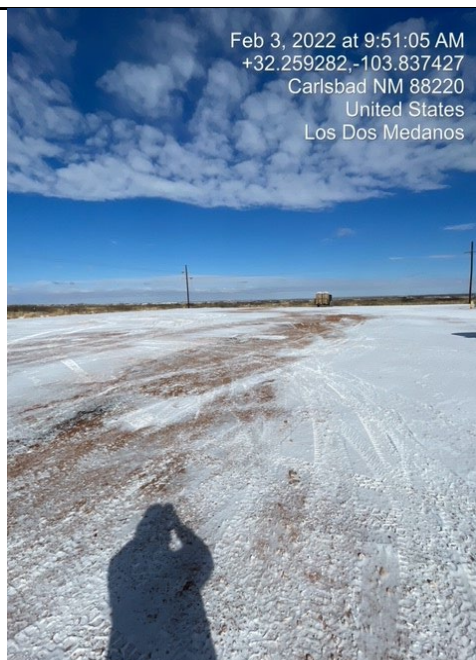
XTO Energy, Inc.

Los Medanos

Incident Number NAPP2204835360



Feb 3, 2022 at 10:11:51 AM
+32.259901,-103.837661
Carlsbad NM 88220
United States
Los Dos Medanos



Feb 3, 2022 at 9:51:05 AM
+32.259282,-103.837427
Carlsbad NM 88220
United States
Los Dos Medanos

Photograph 1

Date: February 3, 2022

Description: Photo of visible staining from release.

Photograph 2

Date: February 3, 2022

Description: Photo of visible staining from release.



Photograph 3

Date: April 13, 2022

Description: Photo of extent taken during initial site visit.



Photograph 4


Date: April 13, 2022


Description: Photo of extent taken during initial site visit.





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: BH01		Date: 4/20/2022	
								Site Name: Los Medanos			
								Incident Number: NAPP2204835360			
								Job Number: 03E1558007			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CS		Method: Backhoe	
Coordinates: 32.259995, -103.837654								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
D	2,441.6	1.3	N	BH01	1	1	SP	SANDSTONE, reddish brown, abundant silt, no stain, no odor.			
D	1,741.6	2.3	N	BH01A	2	2	SP	SAA			
D	2,800	1.7	N			3	SP	SAA			
D	3,466.4	2.2	N	BH01B	4	4	SP	SAA, some caliche gravel.			
TD @ 4 feet bgs											

								Sample Name: PH01		Date: 4/20/2022	
								Site Name: Los Medanos			
								Incident Number: NAPP2204835360			
								Job Number: 03E1558007			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CS		Method: Backhoe	
Coordinates: 32.259264, -103.837494								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
D	168	1.0	N	PH01	1	1	SP	SANDSTONE, reddish brown, abundant silt and caliche grains, no stain, no odor.			
D	<168	1.7	N	PH01A	2	2	SP	SAA, medium to fine grained.			
D	<168	1.4	N			3	SP	SAA			
D	<168	1.1	N	PH01B	4	4	SP	SAA			
TD @ 4 feet bgs											

								Sample Name: PH02		Date: 4/20/2022					
								Site Name: Los Medanos							
								Incident Number: NAPP2204835360							
								Job Number: 03E1558007							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CS		Method: Backhoe					
Coordinates: 32.259354, -103.83761								Hole Diameter: NA		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0									
D	<168	2.6	N	PH02	1	1	SP	SANDSTONE, reddish brown, abundand silt and caliche grains, no stain, no odor.							
D	<168	3.0	N	PH02A	2	2	SP	SAA, no caliche grains, medium to fine grained.							
D	<168	1.7	N			3	SP	SAA							
D	<168	1.8	N	PH02B	4	4	SP	SAA							
TD @ 4 feet bgs															

								Sample Name: PH03		Date: 4/20/2022					
								Site Name: Los Medanos							
								Incident Number: NAPP2204835360							
								Job Number: 03E1558007							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CS		Method: Backhoe					
Coordinates: 32.259489, -103.837511								Hole Diameter: NA		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0									
D	<168	6.1	N	PH03	1	1	SP	SANDSTONE, reddish brown, abundant silt and caliche grains, no stain, no odor.							
D	<168	4.7	N	PH03A	2	2	SP	SAA, no caliche grains, medium to fine grained.							
D	<168	4.6	N			3	SP	SAA							
D	<168	2.8	N	PH03B	4	4	SP	SAA							
TD @ 4 feet bgs															

								Sample Name: PH04		Date: 4/20/2022					
								Site Name: Los Medanos							
								Incident Number: NAPP2204835360							
								Job Number: 03E1558007							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CS		Method: Backhoe					
Coordinates: 32.259681, -103.837576								Hole Diameter: NA		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0									
D	<168	3.8	N	PH04	1	1	SP	SANDSTONE, reddish brown, abundant silt and caliche grains, no stain, no odor.							
D	<168	2.4	N			2	SP	SAA, no caliche grains, medium to fine grain.							
D	<168	1.2	N			3	SP	SAA							
D	<168	1.3	N	PH04A	4	4	SP	SAA							
TD @ 4 feet bgs															

								Sample Name: PH05		Date: 4/20/2022			
								Site Name: Los Medanos					
								Incident Number: NAPP2204835360					
								Job Number: 03E1558007					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CS		Method: Backhoe			
Coordinates: 32.259816, -103.837711								Hole Diameter: NA		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
						0							
D	<168	2.7	N	PH05	1	1	SP	SANDSTONE, reddish brown, abundant silt and caliche grains, no stain, no odor.					
D	<168	2.0	N			2	SP	SAA, no caliche grains, medium to fine grain.					
D	<168	3.2	N			3	SP	SAA					
D	<168	4.8	N	PH05A	4	4	SP	SAA					
TD @ 4 feet bgs													



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2197-1

Laboratory Sample Delivery Group: 03E1558007

Client Project/Site: Los Dos Medenos

Revision: 1

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

Authorized for release by:

4/29/2022 5:06:21 PM

Brianna Teel, Project Manager
(432)704-5440

Brianna.Teel@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Los Dos Medenos

Laboratory Job ID: 890-2197-1
SDG: 03E1558007

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	10
QC Sample Results	12
QC Association Summary	19
Lab Chronicle	22
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

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

Definitions/Glossary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Qualifiers

GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Job ID: 890-2197-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2197-1

REVISION

The report being provided is a revision of the original report sent on 4/22/2022. The report (revision 1) is being revised due to Per client email, requesting we review all chloride data. Not matching field screenings.

Report revision history

Receipt

The samples were received on 4/18/2022 8:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23784 and analytical batch 880-23768 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-23912/1-A) and (MB 880-23912/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-24453 and analytical batch 880-24454 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS01

Lab Sample ID: 890-2197-1

Date Collected: 04/13/22 12:00

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 03:07	1
Toluene	0.0202		0.00200	mg/Kg		04/19/22 13:14	04/20/22 03:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 03:07	1
m-Xylene & p-Xylene	0.0109		0.00400	mg/Kg		04/19/22 13:14	04/20/22 03:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 03:07	1
Xylenes, Total	0.0109		0.00400	mg/Kg		04/19/22 13:14	04/20/22 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	04/19/22 13:14	04/20/22 03:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/19/22 13:14	04/20/22 03:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0311		0.00400	mg/Kg			04/20/22 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/20/22 15:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 00:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 00:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/19/22 10:31	04/20/22 00:53	1
o-Terphenyl	113		70 - 130	04/19/22 10:31	04/20/22 00:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87400	F1	496	mg/Kg			04/29/22 11:48	100

Client Sample ID: SS02

Lab Sample ID: 890-2197-2

Date Collected: 04/13/22 12:05

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/19/22 13:14	04/20/22 03:27	1
Toluene	0.00377		0.00201	mg/Kg		04/19/22 13:14	04/20/22 03:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/19/22 13:14	04/20/22 03:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/19/22 13:14	04/20/22 03:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/19/22 13:14	04/20/22 03:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/19/22 13:14	04/20/22 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/19/22 13:14	04/20/22 03:27	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS02

Lab Sample ID: 890-2197-2

Date Collected: 04/13/22 12:05

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/19/22 13:14	04/20/22 03:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/20/22 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/20/22 15:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 01:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 01:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 01:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			04/19/22 10:31	04/20/22 01:35	1
o-Terphenyl	91		70 - 130			04/19/22 10:31	04/20/22 01:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90600		499	mg/Kg			04/29/22 12:07	100

Client Sample ID: SS03

Lab Sample ID: 890-2197-3

Date Collected: 04/13/22 12:10

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/19/22 13:14	04/20/22 03:48	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/19/22 13:14	04/20/22 03:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/19/22 13:14	04/20/22 03:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/19/22 13:14	04/20/22 03:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/19/22 13:14	04/20/22 03:48	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/19/22 13:14	04/20/22 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/19/22 13:14	04/20/22 03:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/19/22 13:14	04/20/22 03:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/20/22 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/20/22 15:20	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS03

Lab Sample ID: 890-2197-3

Date Collected: 04/13/22 12:10

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/19/22 10:31	04/20/22 01:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/19/22 10:31	04/20/22 01:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/19/22 10:31	04/20/22 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			04/19/22 10:31	04/20/22 01:56	1
o-Terphenyl	112		70 - 130			04/19/22 10:31	04/20/22 01:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23200		249	mg/Kg			04/29/22 12:13	50

Client Sample ID: SS04

Lab Sample ID: 890-2197-4

Date Collected: 04/13/22 12:15

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/19/22 13:14	04/20/22 04:08	1
Toluene	0.00298		0.00201	mg/Kg		04/19/22 13:14	04/20/22 04:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/19/22 13:14	04/20/22 04:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/19/22 13:14	04/20/22 04:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/19/22 13:14	04/20/22 04:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/19/22 13:14	04/20/22 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			04/19/22 13:14	04/20/22 04:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130			04/19/22 13:14	04/20/22 04:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/20/22 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/20/22 15:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			04/19/22 10:31	04/20/22 02:17	1
o-Terphenyl	95		70 - 130			04/19/22 10:31	04/20/22 02:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS04

Lab Sample ID: 890-2197-4

Date Collected: 04/13/22 12:15

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40600		250	mg/Kg			04/29/22 12:20	50

Client Sample ID: SS05

Lab Sample ID: 890-2197-5

Date Collected: 04/13/22 12:20

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/19/22 17:00	04/20/22 11:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/19/22 17:00	04/20/22 11:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/19/22 17:00	04/20/22 11:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/19/22 17:00	04/20/22 11:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/19/22 17:00	04/20/22 11:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/19/22 17:00	04/20/22 11:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			04/19/22 17:00	04/20/22 11:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/19/22 17:00	04/20/22 11:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/20/22 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/20/22 15:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			04/19/22 10:31	04/20/22 02:38	1
o-Terphenyl	110		70 - 130			04/19/22 10:31	04/20/22 02:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35000		249	mg/Kg			04/29/22 12:26	50

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS06

Lab Sample ID: 890-2197-6

Date Collected: 04/13/22 12:25

Matrix: Solid

Date Received: 04/18/22 08:04

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 23:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 23:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 23:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/21/22 09:54	04/21/22 23:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 23:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/21/22 09:54	04/21/22 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	04/21/22 09:54	04/21/22 23:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/21/22 09:54	04/21/22 23:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/20/22 11:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/20/22 15:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/20/22 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	04/19/22 10:31	04/20/22 02:59	1
o-Terphenyl	91		70 - 130	04/19/22 10:31	04/20/22 02:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	529		25.0	mg/Kg			04/29/22 12:45	5

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-13710-A-10-E MS	Matrix Spike	86	106
880-13710-A-10-F MSD	Matrix Spike Duplicate	94	107
890-2195-A-1-B MS	Matrix Spike	24 S1-	11 S1-
890-2195-A-1-C MSD	Matrix Spike Duplicate	25 S1-	2 S1-
890-2197-1	SS01	82	82
890-2197-2	SS02	98	101
890-2197-3	SS03	110	108
890-2197-4	SS04	99	102
890-2197-5	SS05	113	101
890-2197-5 MS	SS05	104	103
890-2197-5 MSD	SS05	101	102
890-2197-6	SS06	81	98
LCS 880-23750/1-B	Lab Control Sample	99	101
LCS 880-23784/1-A	Lab Control Sample	95	103
LCS 880-23912/1-A	Lab Control Sample	82	10 S1-
LCSD 880-23750/2-B	Lab Control Sample Dup	103	103
LCSD 880-23784/2-A	Lab Control Sample Dup	94	103
LCSD 880-23912/2-A	Lab Control Sample Dup	82	100
MB 880-23750/5-B	Method Blank	101	92
MB 880-23779/5-A	Method Blank	97	102
MB 880-23784/5-A	Method Blank	96	102
MB 880-23912/5-A	Method Blank	64 S1-	89
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-13850-A-21-B MS	Matrix Spike	82	90
880-13850-A-21-C MSD	Matrix Spike Duplicate	77	81
890-2197-1	SS01	95	113
890-2197-2	SS02	78	91
890-2197-3	SS03	95	112
890-2197-4	SS04	82	95
890-2197-5	SS05	94	110
890-2197-6	SS06	79	91
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-23780/2-A	Lab Control Sample	92	108
LCSD 880-23780/3-A	Lab Control Sample Dup	100	116
MB 880-23780/1-A	Method Blank	98	120
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23750/5-B

Matrix: Solid

Analysis Batch: 23819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23750

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/19/22 17:00	04/20/22 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/19/22 17:00	04/20/22 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/19/22 17:00	04/20/22 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/19/22 17:00	04/20/22 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/19/22 17:00	04/20/22 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/19/22 17:00	04/20/22 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/19/22 17:00	04/20/22 11:37	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/19/22 17:00	04/20/22 11:37	1

Lab Sample ID: LCS 880-23750/1-B

Matrix: Solid

Analysis Batch: 23819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1169		mg/Kg		117	70 - 130
Toluene	0.100	0.1265		mg/Kg		127	70 - 130
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2390		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-23750/2-B

Matrix: Solid

Analysis Batch: 23819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23750

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1144		mg/Kg		114	70 - 130	2	35
Toluene	0.100	0.1246		mg/Kg		125	70 - 130	2	35
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2343		mg/Kg		117	70 - 130	2	35
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2197-5 MS

Matrix: Solid

Analysis Batch: 23819

Client Sample ID: SS05

Prep Type: Total/NA

Prep Batch: 23750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1146		mg/Kg		114	70 - 130
Toluene	<0.00202	U	0.100	0.1225		mg/Kg		122	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Lab Sample ID: 890-2197-5 MS

Matrix: Solid

Analysis Batch: 23819

Client Sample ID: SS05

Prep Type: Total/NA

Prep Batch: 23750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.1095		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2298		mg/Kg		114	70 - 130
o-Xylene	<0.00202	U	0.100	0.1089		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2197-5 MSD

Matrix: Solid

Analysis Batch: 23819

Client Sample ID: SS05

Prep Type: Total/NA

Prep Batch: 23750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00202	U	0.0996	0.1280		mg/Kg		127	70 - 130	11	35
Toluene	<0.00202		0.0996	0.1162		mg/Kg		94	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.0996	0.1045		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403		0.199	0.2200		mg/Kg		104	70 - 130	4	35
o-Xylene	<0.00202		0.0996	0.1046		mg/Kg		103	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-23779/5-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23779

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/19/22 10:22	04/19/22 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/19/22 10:22	04/19/22 12:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/19/22 10:22	04/19/22 12:24	1

Lab Sample ID: MB 880-23784/5-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23784

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 00:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 00:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 00:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/19/22 13:14	04/20/22 00:35	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-23784/5-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23784

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/19/22 13:14	04/20/22 00:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/19/22 13:14	04/20/22 00:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/19/22 13:14	04/20/22 00:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/19/22 13:14	04/20/22 00:35	1

Lab Sample ID: LCS 880-23784/1-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1185		mg/Kg		118	70 - 130
Toluene	0.100	0.1239		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1119		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2319		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1098		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-23784/2-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23784

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1199		mg/Kg		120	70 - 130	1	35
Toluene	0.100	0.1189		mg/Kg		119	70 - 130	4	35
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2204		mg/Kg		110	70 - 130	5	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2195-A-1-B MS

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0398	U F1	0.100	<0.0401	U F1	mg/Kg		0	70 - 130
Toluene	4.47	F1	0.100	2.004	F1	mg/Kg		1777	70 - 130
Ethylbenzene	2.36	F1	0.100	1.189	F1	mg/Kg		1069	70 - 130
m-Xylene & p-Xylene	23.3	E	0.200	10.24	4	mg/Kg		4527	70 - 130
o-Xylene	1.87	F1	0.100	0.6170	F1	mg/Kg		522	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Lab Sample ID: 890-2195-A-1-B MS

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23784

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	24	S1-	70 - 130
1,4-Difluorobenzene (Surr)	11	S1-	70 - 130

Lab Sample ID: 890-2195-A-1-C MSD

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0398	U F1	0.0998	<0.0399	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	4.47	F1	0.0998	2.017	F1	mg/Kg		1797	70 - 130	1	35
Ethylbenzene	2.36	F1	0.0998	1.198	F1	mg/Kg		1082	70 - 130	1	35
m-Xylene & p-Xylene	23.3	E	0.200	10.10	4	mg/Kg		4476	70 - 130	1	35
o-Xylene	1.87	F1	0.0998	0.6504	F1	mg/Kg		558	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	25	S1-	70 - 130
1,4-Difluorobenzene (Surr)	2	S1-	70 - 130

Lab Sample ID: MB 880-23912/5-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:54	04/21/22 12:11	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	04/21/22 09:54	04/21/22 12:11	1		
1,4-Difluorobenzene (Surr)	89		70 - 130	04/21/22 09:54	04/21/22 12:11	1		

Lab Sample ID: LCS 880-23912/1-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08772		mg/Kg		88	70 - 130
Toluene	0.100	0.08660		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08794		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1768		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08664		mg/Kg		87	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Lab Sample ID: LCS 880-23912/1-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23912

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	10	S1-	70 - 130

Lab Sample ID: LCSD 880-23912/2-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09280		mg/Kg		93	70 - 130	6	35
Toluene	0.100	0.08850		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.09034		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	1	35
o-Xylene	0.100	0.08836		mg/Kg		88	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-13710-A-10-E MS

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1071		mg/Kg		107	70 - 130
Toluene	<0.00200	U	0.0998	0.09008		mg/Kg		90	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07967		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0998	0.07941		mg/Kg		80	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-13710-A-10-F MSD

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1044		mg/Kg		105	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.09975		mg/Kg		100	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0996	0.09748		mg/Kg		98	70 - 130	20	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1960		mg/Kg		98	70 - 130	19	35
o-Xylene	<0.00200	U	0.0996	0.09803		mg/Kg		98	70 - 130	21	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-23780/1-A

Matrix: Solid

Analysis Batch: 23761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23780

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/19/22 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/19/22 19:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/19/22 10:31	04/19/22 19:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			04/19/22 10:31	04/19/22 19:58	1
o-Terphenyl	120		70 - 130			04/19/22 10:31	04/19/22 19:58	1

Lab Sample ID: LCS 880-23780/2-A

Matrix: Solid

Analysis Batch: 23761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	835.6		mg/Kg		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	92		70 - 130				
o-Terphenyl	108		70 - 130				

Lab Sample ID: LCSD 880-23780/3-A

Matrix: Solid

Analysis Batch: 23761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	840.2		mg/Kg		84	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	116		70 - 130						

Lab Sample ID: 880-13850-A-21-B MS

Matrix: Solid

Analysis Batch: 23761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	866.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	812.9		mg/Kg		79	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

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

Lab Sample ID: 880-13850-A-21-B MS

Matrix: Solid

Analysis Batch: 23761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23780

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-13850-A-21-C MSD

Matrix: Solid

Analysis Batch: 23761

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	802.0		mg/Kg		78	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	745.7		mg/Kg		73	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	81		70 - 130

QC Association Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

GC VOA

Prep Batch: 23750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-5	SS05	Total/NA	Solid	5035	
MB 880-23750/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-23750/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23750/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2197-5 MS	SS05	Total/NA	Solid	5035	
890-2197-5 MSD	SS05	Total/NA	Solid	5035	

Analysis Batch: 23768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Total/NA	Solid	8021B	23784
890-2197-2	SS02	Total/NA	Solid	8021B	23784
890-2197-3	SS03	Total/NA	Solid	8021B	23784
890-2197-4	SS04	Total/NA	Solid	8021B	23784
MB 880-23779/5-A	Method Blank	Total/NA	Solid	8021B	23779
MB 880-23784/5-A	Method Blank	Total/NA	Solid	8021B	23784
LCS 880-23784/1-A	Lab Control Sample	Total/NA	Solid	8021B	23784
LCSD 880-23784/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23784
890-2195-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	23784
890-2195-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23784

Prep Batch: 23779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23779/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Total/NA	Solid	5035	
890-2197-2	SS02	Total/NA	Solid	5035	
890-2197-3	SS03	Total/NA	Solid	5035	
890-2197-4	SS04	Total/NA	Solid	5035	
MB 880-23784/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23784/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23784/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2195-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2195-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 23819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-5	SS05	Total/NA	Solid	8021B	23750
MB 880-23750/5-B	Method Blank	Total/NA	Solid	8021B	23750
LCS 880-23750/1-B	Lab Control Sample	Total/NA	Solid	8021B	23750
LCSD 880-23750/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	23750
890-2197-5 MS	SS05	Total/NA	Solid	8021B	23750
890-2197-5 MSD	SS05	Total/NA	Solid	8021B	23750

Analysis Batch: 23836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Total/NA	Solid	Total BTEX	
890-2197-2	SS02	Total/NA	Solid	Total BTEX	
890-2197-3	SS03	Total/NA	Solid	Total BTEX	
890-2197-4	SS04	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

GC VOA (Continued)

Analysis Batch: 23836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-5	SS05	Total/NA	Solid	Total BTEX	
890-2197-6	SS06	Total/NA	Solid	Total BTEX	

Analysis Batch: 23884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-6	SS06	Total/NA	Solid	8021B	23912
MB 880-23912/5-A	Method Blank	Total/NA	Solid	8021B	23912
LCS 880-23912/1-A	Lab Control Sample	Total/NA	Solid	8021B	23912
LCSD 880-23912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23912
880-13710-A-10-E MS	Matrix Spike	Total/NA	Solid	8021B	23912
880-13710-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23912

Prep Batch: 23912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-6	SS06	Total/NA	Solid	5035	
MB 880-23912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13710-A-10-E MS	Matrix Spike	Total/NA	Solid	5035	
880-13710-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 23761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Total/NA	Solid	8015B NM	23780
890-2197-2	SS02	Total/NA	Solid	8015B NM	23780
890-2197-3	SS03	Total/NA	Solid	8015B NM	23780
890-2197-4	SS04	Total/NA	Solid	8015B NM	23780
890-2197-5	SS05	Total/NA	Solid	8015B NM	23780
890-2197-6	SS06	Total/NA	Solid	8015B NM	23780
MB 880-23780/1-A	Method Blank	Total/NA	Solid	8015B NM	23780
LCS 880-23780/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23780
LCSD 880-23780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23780
880-13850-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	23780
880-13850-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23780

Prep Batch: 23780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Total/NA	Solid	8015NM Prep	
890-2197-2	SS02	Total/NA	Solid	8015NM Prep	
890-2197-3	SS03	Total/NA	Solid	8015NM Prep	
890-2197-4	SS04	Total/NA	Solid	8015NM Prep	
890-2197-5	SS05	Total/NA	Solid	8015NM Prep	
890-2197-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-23780/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23780/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13850-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13850-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

GC Semi VOA

Analysis Batch: 23853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Total/NA	Solid	8015 NM	
890-2197-2	SS02	Total/NA	Solid	8015 NM	
890-2197-3	SS03	Total/NA	Solid	8015 NM	
890-2197-4	SS04	Total/NA	Solid	8015 NM	
890-2197-5	SS05	Total/NA	Solid	8015 NM	
890-2197-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Soluble	Solid	DI Leach	
890-2197-2	SS02	Soluble	Solid	DI Leach	
890-2197-3	SS03	Soluble	Solid	DI Leach	
890-2197-4	SS04	Soluble	Solid	DI Leach	
890-2197-5	SS05	Soluble	Solid	DI Leach	
890-2197-6	SS06	Soluble	Solid	DI Leach	

Analysis Batch: 24454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2197-1	SS01	Soluble	Solid	300.0	24453
890-2197-2	SS02	Soluble	Solid	300.0	24453
890-2197-3	SS03	Soluble	Solid	300.0	24453
890-2197-4	SS04	Soluble	Solid	300.0	24453
890-2197-5	SS05	Soluble	Solid	300.0	24453
890-2197-6	SS06	Soluble	Solid	300.0	24453

Lab Chronicle

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS01

Lab Sample ID: 890-2197-1

Date Collected: 04/13/22 12:00

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23784	04/19/22 13:14	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/20/22 03:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23836	04/20/22 11:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23853	04/20/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23780	04/19/22 10:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23761	04/20/22 00:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24453	04/28/22 16:29	CH	XEN MID
Soluble	Analysis	300.0		100	0 mL	1.0 mL	24454	04/29/22 11:48	SC	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2197-2

Date Collected: 04/13/22 12:05

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23784	04/19/22 13:14	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/20/22 03:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23836	04/20/22 11:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23853	04/20/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23780	04/19/22 10:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23761	04/20/22 01:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24453	04/28/22 16:29	CH	XEN MID
Soluble	Analysis	300.0		100			24454	04/29/22 12:07	SC	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-2197-3

Date Collected: 04/13/22 12:10

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23784	04/19/22 13:14	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/20/22 03:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23836	04/20/22 11:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23853	04/20/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23780	04/19/22 10:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23761	04/20/22 01:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24453	04/28/22 16:29	CH	XEN MID
Soluble	Analysis	300.0		50			24454	04/29/22 12:13	SC	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-2197-4

Date Collected: 04/13/22 12:15

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23784	04/19/22 13:14	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/20/22 04:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23836	04/20/22 11:37	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Client Sample ID: SS04

Lab Sample ID: 890-2197-4

Date Collected: 04/13/22 12:15

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			23853	04/20/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23780	04/19/22 10:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23761	04/20/22 02:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24453	04/28/22 16:29	CH	XEN MID
Soluble	Analysis	300.0		50			24454	04/29/22 12:20	SC	XEN MID

Client Sample ID: SS05

Lab Sample ID: 890-2197-5

Date Collected: 04/13/22 12:20

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23750	04/19/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			23819	04/20/22 11:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23836	04/20/22 11:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23853	04/20/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23780	04/19/22 10:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23761	04/20/22 02:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24453	04/28/22 16:29	CH	XEN MID
Soluble	Analysis	300.0		50			24454	04/29/22 12:26	SC	XEN MID

Client Sample ID: SS06

Lab Sample ID: 890-2197-6

Date Collected: 04/13/22 12:25

Matrix: Solid

Date Received: 04/18/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23912	04/21/22 09:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23884	04/21/22 23:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23836	04/20/22 11:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23853	04/20/22 15:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23780	04/19/22 10:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23761	04/20/22 02:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24453	04/28/22 16:29	CH	XEN MID
Soluble	Analysis	300.0		5			24454	04/29/22 12:45	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Los Dos Medenos

Job ID: 890-2197-1
SDG: 03E1558007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2197-1	SS01	Solid	04/13/22 12:00	04/18/22 08:04	0.5
890-2197-2	SS02	Solid	04/13/22 12:05	04/18/22 08:04	0.5
890-2197-3	SS03	Solid	04/13/22 12:10	04/18/22 08:04	0.5
890-2197-4	SS04	Solid	04/13/22 12:15	04/18/22 08:04	0.5
890-2197-5	SS05	Solid	04/13/22 12:20	04/18/22 08:04	0.5
890-2197-6	SS06	Solid	04/13/22 12:25	04/18/22 08:04	0.5



Chain of Custody

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

Environment Testing

Xenco

Work Order No: _____

www.xenco.com

Page _____ of _____

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Project Name:		Turn Around	
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:		Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Project Name:		Turn Around	
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:		Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SS01	S	04/13/22	1200	0.5'		1				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
SS02			1205								
SS03			1210								
SS04			1215								
SS05			1220								
SS06			1225								

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>CM Collier</i>	<i>N-otto</i>	4/10/22 8:01 ²			
3		4			
5		6			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2197-1

SDG Number: 03E1558007

Login Number: 2197

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2197-1

SDG Number: 03E1558007

Login Number: 2197**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 04/19/22 11:38 AM**

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2220-1

Laboratory Sample Delivery Group: 03E1558007

Client Project/Site: LOS MEDANOS

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
4/25/2022 3:38:33 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: LOS MEDANOS

Laboratory Job ID: 890-2220-1
SDG: 03E1558007

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

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

Definitions/Glossary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Job ID: 890-2220-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2220-1

Receipt

The samples were received on 4/20/2022 4:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23938 and analytical batch 880-23884 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23944 and analytical batch 880-23891 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Client Sample ID: SS07

Lab Sample ID: 890-2220-1

Date Collected: 04/20/22 12:40

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:12	04/22/22 12:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:12	04/22/22 12:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:12	04/22/22 12:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 11:12	04/22/22 12:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:12	04/22/22 12:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 11:12	04/22/22 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	04/21/22 11:12	04/22/22 12:34	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/21/22 11:12	04/22/22 12:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/22/22 13:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/22/22 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/22/22 03:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/22/22 03:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/22/22 03:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/21/22 13:57	04/22/22 03:30	1
o-Terphenyl	92		70 - 130	04/21/22 13:57	04/22/22 03:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.88		4.95	mg/Kg			04/21/22 22:56	1

Client Sample ID: SS08

Lab Sample ID: 890-2220-2

Date Collected: 04/20/22 12:45

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 13:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 13:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 13:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/22 11:12	04/22/22 13:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 13:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/22 11:12	04/22/22 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	04/21/22 11:12	04/22/22 13:00	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Client Sample ID: SS08

Lab Sample ID: 890-2220-2

Date Collected: 04/20/22 12:45

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/22 11:12	04/22/22 13:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 13:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/22/22 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/22/22 03:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/22/22 03:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/22/22 03:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			04/21/22 13:57	04/22/22 03:51	1
o-Terphenyl	105		70 - 130			04/21/22 13:57	04/22/22 03:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		4.96	mg/Kg			04/21/22 23:05	1

Client Sample ID: SS09

Lab Sample ID: 890-2220-3

Date Collected: 04/20/22 12:50

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/21/22 11:12	04/22/22 13:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/21/22 11:12	04/22/22 13:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/21/22 11:12	04/22/22 13:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/21/22 11:12	04/22/22 13:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/21/22 11:12	04/22/22 13:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/21/22 11:12	04/22/22 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/21/22 11:12	04/22/22 13:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/21/22 11:12	04/22/22 13:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/22/22 13:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/22/22 10:26	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Client Sample ID: SS09

Lab Sample ID: 890-2220-3

Date Collected: 04/20/22 12:50

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 13:57	04/22/22 04:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 13:57	04/22/22 04:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 13:57	04/22/22 04:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			04/21/22 13:57	04/22/22 04:13	1
o-Terphenyl	101		70 - 130			04/21/22 13:57	04/22/22 04:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		4.95	mg/Kg			04/21/22 23:14	1

Client Sample ID: SS10

Lab Sample ID: 890-2220-4

Date Collected: 04/20/22 12:55

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/22 11:12	04/22/22 13:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/22 11:12	04/22/22 13:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/22 11:12	04/22/22 13:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/21/22 11:12	04/22/22 13:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/22 11:12	04/22/22 13:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/21/22 11:12	04/22/22 13:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			04/21/22 11:12	04/22/22 13:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130			04/21/22 11:12	04/22/22 13:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/22/22 13:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/22/22 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 13:57	04/22/22 04:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 13:57	04/22/22 04:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 13:57	04/22/22 04:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			04/21/22 13:57	04/22/22 04:35	1
o-Terphenyl	93		70 - 130			04/21/22 13:57	04/22/22 04:35	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Client Sample ID: SS10
Date Collected: 04/20/22 12:55
Date Received: 04/20/22 16:34
Sample Depth: 0.5

Lab Sample ID: 890-2220-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	97.1		4.99	mg/Kg			04/21/22 23:23	1	

Surrogate Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-13942-A-1-A MS	Matrix Spike	96	100
880-13942-A-1-B MSD	Matrix Spike Duplicate	94	99
890-2220-1	SS07	93	98
890-2220-2	SS08	93	94
890-2220-3	SS09	95	95
890-2220-4	SS10	95	96
LCS 880-23938/1-A	Lab Control Sample	87	101
LCSD 880-23938/2-A	Lab Control Sample Dup	86	103
MB 880-23912/5-A	Method Blank	64 S1-	89
MB 880-23938/5-A	Method Blank	67 S1-	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2216-A-2-C MS	Matrix Spike	79	73
890-2216-A-2-D MSD	Matrix Spike Duplicate	82	75
890-2220-1	SS07	92	92
890-2220-2	SS08	106	105
890-2220-3	SS09	98	101
890-2220-4	SS10	92	93
LCS 880-23944/2-A	Lab Control Sample	100	90
LCSD 880-23944/3-A	Lab Control Sample Dup	104	94
MB 880-23944/1-A	Method Blank	95	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23912/5-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:54	04/21/22 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	04/21/22 09:54	04/21/22 12:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/21/22 09:54	04/21/22 12:11	1

Lab Sample ID: MB 880-23938/5-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23938

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 03:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 03:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 03:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 11:12	04/22/22 03:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:12	04/22/22 03:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 11:12	04/22/22 03:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	04/21/22 11:12	04/22/22 03:35	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/22 11:12	04/22/22 03:35	1

Lab Sample ID: LCS 880-23938/1-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09640		mg/Kg		96	70 - 130
Toluene	0.100	0.09108		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09337		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1778		mg/Kg		89	70 - 130
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-23938/2-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23938

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08835		mg/Kg		88	70 - 130	9	35

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

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

Lab Sample ID: LCSD 880-23938/2-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23938

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08353		mg/Kg		84	70 - 130	9	35
Ethylbenzene	0.100	0.08102		mg/Kg		81	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1601		mg/Kg		80	70 - 130	10	35
o-Xylene	0.100	0.09035		mg/Kg		90	70 - 130	24	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-13942-A-1-A MS

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.08937		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.0996	0.09115		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.07588		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.1269	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08863		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-13942-A-1-B MSD

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0992	0.09737		mg/Kg		98	70 - 130	9	35
Toluene	<0.00200	U	0.0992	0.09165		mg/Kg		92	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0992	0.07959		mg/Kg		80	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1212	F1	mg/Kg		61	70 - 130	5	35
o-Xylene	<0.00200	U	0.0992	0.08874		mg/Kg		89	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-23944/1-A

Matrix: Solid

Analysis Batch: 23891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23944

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/21/22 21:44	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-23944/1-A

Matrix: Solid

Analysis Batch: 23891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23944

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/21/22 21:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 13:57	04/21/22 21:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			04/21/22 13:57	04/21/22 21:44	1
o-Terphenyl	100		70 - 130			04/21/22 13:57	04/21/22 21:44	1

Lab Sample ID: LCS 880-23944/2-A

Matrix: Solid

Analysis Batch: 23891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	821.9		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	972.8		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	100		70 - 130				
o-Terphenyl	90		70 - 130				

Lab Sample ID: LCSD 880-23944/3-A

Matrix: Solid

Analysis Batch: 23891

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23944

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	900.4		mg/Kg		90	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	94		70 - 130						

Lab Sample ID: 890-2216-A-2-C MS

Matrix: Solid

Analysis Batch: 23891

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	716.6		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	668.0	F1	mg/Kg		64	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	79		70 - 130						
o-Terphenyl	73		70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

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

Lab Sample ID: 890-2216-A-2-D MSD

Matrix: Solid

Analysis Batch: 23891

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	791.5		mg/Kg		77	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	706.4	F1	mg/Kg		68	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	75		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23900/1-A

Matrix: Solid

Analysis Batch: 23991

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/21/22 18:48	1

Lab Sample ID: LCS 880-23900/2-A

Matrix: Solid

Analysis Batch: 23991

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-23900/3-A

Matrix: Solid

Analysis Batch: 23991

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2218-A-6-D MS

Matrix: Solid

Analysis Batch: 23991

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	57.8		248	301.2		mg/Kg		98	90 - 110

Lab Sample ID: 890-2218-A-6-E MSD

Matrix: Solid

Analysis Batch: 23991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	57.8		248	313.7		mg/Kg		103	90 - 110	4	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

GC VOA

Analysis Batch: 23884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Total/NA	Solid	8021B	23938
890-2220-2	SS08	Total/NA	Solid	8021B	23938
890-2220-3	SS09	Total/NA	Solid	8021B	23938
890-2220-4	SS10	Total/NA	Solid	8021B	23938
MB 880-23912/5-A	Method Blank	Total/NA	Solid	8021B	23912
MB 880-23938/5-A	Method Blank	Total/NA	Solid	8021B	23938
LCS 880-23938/1-A	Lab Control Sample	Total/NA	Solid	8021B	23938
LCSD 880-23938/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23938
880-13942-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23938
880-13942-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23938

Prep Batch: 23912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23912/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Total/NA	Solid	5035	
890-2220-2	SS08	Total/NA	Solid	5035	
890-2220-3	SS09	Total/NA	Solid	5035	
890-2220-4	SS10	Total/NA	Solid	5035	
MB 880-23938/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23938/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23938/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13942-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-13942-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Total/NA	Solid	Total BTEX	
890-2220-2	SS08	Total/NA	Solid	Total BTEX	
890-2220-3	SS09	Total/NA	Solid	Total BTEX	
890-2220-4	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 23891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Total/NA	Solid	8015B NM	23944
890-2220-2	SS08	Total/NA	Solid	8015B NM	23944
890-2220-3	SS09	Total/NA	Solid	8015B NM	23944
890-2220-4	SS10	Total/NA	Solid	8015B NM	23944
MB 880-23944/1-A	Method Blank	Total/NA	Solid	8015B NM	23944
LCS 880-23944/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23944
LCSD 880-23944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23944
890-2216-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	23944
890-2216-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23944

Prep Batch: 23944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

GC Semi VOA (Continued)

Prep Batch: 23944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-2	SS08	Total/NA	Solid	8015NM Prep	
890-2220-3	SS09	Total/NA	Solid	8015NM Prep	
890-2220-4	SS10	Total/NA	Solid	8015NM Prep	
MB 880-23944/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23944/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2216-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2216-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Total/NA	Solid	8015 NM	
890-2220-2	SS08	Total/NA	Solid	8015 NM	
890-2220-3	SS09	Total/NA	Solid	8015 NM	
890-2220-4	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Soluble	Solid	DI Leach	
890-2220-2	SS08	Soluble	Solid	DI Leach	
890-2220-3	SS09	Soluble	Solid	DI Leach	
890-2220-4	SS10	Soluble	Solid	DI Leach	
MB 880-23900/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23900/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23900/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2218-A-6-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2218-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2220-1	SS07	Soluble	Solid	300.0	23900
890-2220-2	SS08	Soluble	Solid	300.0	23900
890-2220-3	SS09	Soluble	Solid	300.0	23900
890-2220-4	SS10	Soluble	Solid	300.0	23900
MB 880-23900/1-A	Method Blank	Soluble	Solid	300.0	23900
LCS 880-23900/2-A	Lab Control Sample	Soluble	Solid	300.0	23900
LCSD 880-23900/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23900
890-2218-A-6-D MS	Matrix Spike	Soluble	Solid	300.0	23900
890-2218-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23900

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Client Sample ID: SS07

Lab Sample ID: 890-2220-1

Date Collected: 04/20/22 12:40

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23938	04/21/22 11:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23884	04/22/22 12:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24051	04/22/22 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24019	04/22/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23944	04/21/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23891	04/22/22 03:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23900	04/21/22 09:36	CH	XEN MID
Soluble	Analysis	300.0		1			23991	04/21/22 22:56	CH	XEN MID

Client Sample ID: SS08

Lab Sample ID: 890-2220-2

Date Collected: 04/20/22 12:45

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23938	04/21/22 11:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23884	04/22/22 13:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24051	04/22/22 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24019	04/22/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23944	04/21/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23891	04/22/22 03:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23900	04/21/22 09:36	CH	XEN MID
Soluble	Analysis	300.0		1			23991	04/21/22 23:05	CH	XEN MID

Client Sample ID: SS09

Lab Sample ID: 890-2220-3

Date Collected: 04/20/22 12:50

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	23938	04/21/22 11:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23884	04/22/22 13:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24051	04/22/22 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24019	04/22/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23944	04/21/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23891	04/22/22 04:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23900	04/21/22 09:36	CH	XEN MID
Soluble	Analysis	300.0		1			23991	04/21/22 23:14	CH	XEN MID

Client Sample ID: SS10

Lab Sample ID: 890-2220-4

Date Collected: 04/20/22 12:55

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23938	04/21/22 11:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23884	04/22/22 13:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24051	04/22/22 13:34	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Client Sample ID: SS10
Date Collected: 04/20/22 12:55
Date Received: 04/20/22 16:34

Lab Sample ID: 890-2220-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24019	04/22/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23944	04/21/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23891	04/22/22 04:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23900	04/21/22 09:36	CH	XEN MID
Soluble	Analysis	300.0		1			23991	04/21/22 23:23	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2220-1
SDG: 03E1558007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2220-1	SS07	Solid	04/20/22 12:40	04/20/22 16:34	0.5
890-2220-2	SS08	Solid	04/20/22 12:45	04/20/22 16:34	0.5
890-2220-3	SS09	Solid	04/20/22 12:50	04/20/22 16:34	0.5
890-2220-4	SS10	Solid	04/20/22 12:55	04/20/22 16:34	0.5

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



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No:



www.xenco.com Page 7 of 7

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum LLC.	Company Name:	XTO Energy, Inc.
Address:	2351 W Northwest Hwy Suite 1203A	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX, 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	bbell@ensolum.com; tmorrissey@ensolum.com

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

Project Name:	Los Medanos	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	03E1558007	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO	DI Water: H ₂ O	
Project Location:	CC: 2094371001	Due Date: 2 day TAT															Cool: Cool	MeOH: Me	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab. If received by 4:30pm															HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID: TCUA-007	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													H ₃ PO ₄ : HP			
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:														NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	-0.2													Na ₂ S ₂ O ₃ : NASO ₃			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Corrected Temperature:	14.8													Zn Acetate+NaOH: Zn			
Total Containers:																NaOH+Ascorbic Acid: SASC			

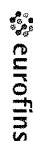
[illegible]

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM		Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed				TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471			
<p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p>									
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time				
1 		4:20:22 (LST)							
3		4							
5		8							
Revised Date: 08/25/2020 Rev: 2020									

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2220-1

SDG Number: 03E1558007

Login Number: 2220

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2220-1

SDG Number: 03E1558007

Login Number: 2220

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/21/22 01:11 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2221-1
Laboratory Sample Delivery Group: 03E1558007
Client Project/Site: LOS MEDANOS
Revision: 1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/2/2022 9:48:52 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: LOS MEDANOS

Laboratory Job ID: 890-2221-1
SDG: 03E1558007

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	28
Lab Chronicle	33
Certification Summary	38
Method Summary	39
Sample Summary	40
Chain of Custody	41
Receipt Checklists	45

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

Definitions/Glossary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Job ID: 890-2221-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2221-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/26/2022. The report (revision 1) is being revised to change Sample IDs per Tacoma Morrissey (email)..

Receipt

The samples were received on 4/20/2022 4:34 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.8° C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-23912/1-A) and (MB 880-23912/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24111 and analytical batch 880-24110 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-23947/3-A). Evidence of matrix interferences is not obvious.

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH01

Lab Sample ID: 890-2221-1

Date Collected: 04/20/22 09:30

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/21/22 15:18	04/22/22 16:30	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:30	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/21/22 15:18	04/22/22 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/21/22 15:18	04/22/22 16:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/22 15:18	04/22/22 16:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/21/22 14:06	04/23/22 12:41	1
o-Terphenyl	106		70 - 130	04/21/22 14:06	04/23/22 12:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.00	mg/Kg			04/25/22 18:33	1

Client Sample ID: PH01A

Lab Sample ID: 890-2221-2

Date Collected: 04/20/22 09:35

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/21/22 15:18	04/22/22 16:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 16:50	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/21/22 15:18	04/22/22 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/21/22 15:18	04/22/22 16:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH01A

Lab Sample ID: 890-2221-2

Date Collected: 04/20/22 09:35

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/22 15:18	04/22/22 16:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 13:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 13:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/21/22 14:06	04/23/22 13:45	1
o-Terphenyl	102		70 - 130			04/21/22 14:06	04/23/22 13:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.8		4.99	mg/Kg			04/25/22 20:19	1

Client Sample ID: PH01B

Lab Sample ID: 890-2221-3

Date Collected: 04/20/22 09:45

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 17:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 17:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 17:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/22 15:18	04/22/22 17:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 17:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/22 15:18	04/22/22 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/21/22 15:18	04/22/22 17:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/21/22 15:18	04/22/22 17:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/22 13:52	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH01B

Lab Sample ID: 890-2221-3

Date Collected: 04/20/22 09:45

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			04/21/22 14:06	04/23/22 14:06	1
o-Terphenyl	100		70 - 130			04/21/22 14:06	04/23/22 14:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			04/25/22 20:28	1

Client Sample ID: PH02

Lab Sample ID: 890-2221-4

Date Collected: 04/20/22 10:00

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 15:18	04/22/22 19:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 15:18	04/22/22 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/21/22 15:18	04/22/22 19:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130			04/21/22 15:18	04/22/22 19:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			04/21/22 14:06	04/23/22 14:27	1
o-Terphenyl	100		70 - 130			04/21/22 14:06	04/23/22 14:27	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH02

Lab Sample ID: 890-2221-4

Date Collected: 04/20/22 10:00

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.5		5.05	mg/Kg			04/25/22 20:37	1

Client Sample ID: PH02A

Lab Sample ID: 890-2221-5

Date Collected: 04/20/22 10:05

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 15:18	04/22/22 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 15:18	04/22/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			04/21/22 15:18	04/22/22 19:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/21/22 15:18	04/22/22 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			04/21/22 14:06	04/23/22 14:48	1
o-Terphenyl	98		70 - 130			04/21/22 14:06	04/23/22 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			04/25/22 20:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH02B

Lab Sample ID: 890-2221-6

Date Collected: 04/20/22 10:15

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/22 15:18	04/22/22 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 19:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/22 15:18	04/22/22 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/21/22 15:18	04/22/22 19:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/21/22 15:18	04/22/22 19:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 15:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	04/21/22 14:06	04/23/22 15:09	1
o-Terphenyl	102		70 - 130	04/21/22 14:06	04/23/22 15:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			04/25/22 21:12	1

Client Sample ID: PH03

Lab Sample ID: 890-2221-7

Date Collected: 04/20/22 10:20

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 15:18	04/22/22 20:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 15:18	04/22/22 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21/22 15:18	04/22/22 20:03	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH03

Lab Sample ID: 890-2221-7

Date Collected: 04/20/22 10:20

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	04/21/22 15:18	04/22/22 20:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/21/22 14:06	04/23/22 15:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/21/22 14:06	04/23/22 15:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/21/22 14:06	04/23/22 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			04/21/22 14:06	04/23/22 15:30	1
o-Terphenyl	97		70 - 130			04/21/22 14:06	04/23/22 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.6		4.97	mg/Kg			04/25/22 21:21	1

Client Sample ID: PH03A

Lab Sample ID: 890-2221-8

Date Collected: 04/20/22 10:35

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 20:23	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 20:23	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 20:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/21/22 15:18	04/22/22 20:23	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 20:23	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/21/22 15:18	04/22/22 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/21/22 15:18	04/22/22 20:23	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/21/22 15:18	04/22/22 20:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH03A

Lab Sample ID: 890-2221-8

Date Collected: 04/20/22 10:35

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 15:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			04/21/22 14:06	04/23/22 15:51	1
o-Terphenyl	124		70 - 130			04/21/22 14:06	04/23/22 15:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.62		4.99	mg/Kg			04/25/22 21:30	1

Client Sample ID: PH04

Lab Sample ID: 890-2221-9

Date Collected: 04/20/22 10:40

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/21/22 15:18	04/22/22 20:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 20:44	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/21/22 15:18	04/22/22 20:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/21/22 15:18	04/22/22 20:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130			04/21/22 15:18	04/22/22 20:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			04/21/22 14:06	04/23/22 16:11	1
o-Terphenyl	89		70 - 130			04/21/22 14:06	04/23/22 16:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH04

Lab Sample ID: 890-2221-9

Date Collected: 04/20/22 10:40

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.0		4.99	mg/Kg			04/25/22 21:39	1

Client Sample ID: PH04A

Lab Sample ID: 890-2221-10

Date Collected: 04/20/22 10:55

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:18	04/22/22 21:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:18	04/22/22 21:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:18	04/22/22 21:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/22 15:18	04/22/22 21:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:18	04/22/22 21:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/22 15:18	04/22/22 21:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/21/22 15:18	04/22/22 21:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130			04/21/22 15:18	04/22/22 21:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 16:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			04/21/22 14:06	04/23/22 16:32	1
o-Terphenyl	90		70 - 130			04/21/22 14:06	04/23/22 16:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96	mg/Kg			04/25/22 21:48	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH05

Lab Sample ID: 890-2221-11

Date Collected: 04/20/22 12:00

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 21:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 21:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 21:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/21/22 15:18	04/22/22 21:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/22 15:18	04/22/22 21:24	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/21/22 15:18	04/22/22 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/21/22 15:18	04/22/22 21:24	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/22 15:18	04/22/22 21:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/21/22 14:06	04/23/22 17:14	1
o-Terphenyl	95		70 - 130	04/21/22 14:06	04/23/22 17:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.8		5.00	mg/Kg			04/25/22 21:57	1

Client Sample ID: PH05A

Lab Sample ID: 890-2221-12

Date Collected: 04/20/22 12:15

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 21:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 21:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 21:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/22 15:18	04/22/22 21:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 21:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/22 15:18	04/22/22 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/21/22 15:18	04/22/22 21:45	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH05A

Lab Sample ID: 890-2221-12

Date Collected: 04/20/22 12:15

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/22 15:18	04/22/22 21:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/21/22 14:06	04/23/22 17:35	1
o-Terphenyl	101		70 - 130			04/21/22 14:06	04/23/22 17:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.04	mg/Kg			04/25/22 22:23	1

Client Sample ID: BH01

Lab Sample ID: 890-2221-13

Date Collected: 04/20/22 12:00

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 22:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 22:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 22:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 15:18	04/22/22 22:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/22 15:18	04/22/22 22:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 15:18	04/22/22 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/21/22 15:18	04/22/22 22:05	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/22 15:18	04/22/22 22:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/22 13:52	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: BH01

Lab Sample ID: 890-2221-13

Date Collected: 04/20/22 12:00

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 17:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 17:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 14:06	04/23/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			04/21/22 14:06	04/23/22 17:56	1
o-Terphenyl	95		70 - 130			04/21/22 14:06	04/23/22 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		25.0	mg/Kg			04/25/22 22:32	5

Client Sample ID: BH01A

Lab Sample ID: 890-2221-14

Date Collected: 04/20/22 12:05

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:00	04/21/22 23:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:00	04/21/22 23:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:00	04/21/22 23:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/22 15:00	04/21/22 23:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/22 15:00	04/21/22 23:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/22 15:00	04/21/22 23:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			04/21/22 15:00	04/21/22 23:09	1
1,4-Difluorobenzene (Surr)	95		70 - 130			04/21/22 15:00	04/21/22 23:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 18:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 18:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			04/21/22 14:06	04/23/22 18:17	1
o-Terphenyl	112		70 - 130			04/21/22 14:06	04/23/22 18:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: BH01A

Lab Sample ID: 890-2221-14

Date Collected: 04/20/22 12:05

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		4.95	mg/Kg			04/25/22 22:59	1

Client Sample ID: BH01B

Lab Sample ID: 890-2221-15

Date Collected: 04/20/22 12:15

Matrix: Solid

Date Received: 04/20/22 16:34

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 03:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 03:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 03:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/24/22 22:21	04/25/22 03:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 03:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/24/22 22:21	04/25/22 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			04/24/22 22:21	04/23/22 23:59	1
4-Bromofluorobenzene (Surr)	104		70 - 130			04/24/22 22:21	04/25/22 03:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/24/22 22:21	04/23/22 23:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/24/22 22:21	04/25/22 03:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/22 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/25/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/21/22 14:06	04/23/22 18:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/21/22 14:06	04/23/22 18:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/21/22 14:06	04/23/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			04/21/22 14:06	04/23/22 18:38	1
o-Terphenyl	99		70 - 130			04/21/22 14:06	04/23/22 18:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3320		24.9	mg/Kg			04/25/22 23:07	5

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-13710-A-10-E MS	Matrix Spike	86	106
880-13710-A-10-F MSD	Matrix Spike Duplicate	94	107
880-13850-A-1-H MS	Matrix Spike	102	95
880-13850-A-1-I MSD	Matrix Spike Duplicate	97	99
880-13949-A-21-A MS	Matrix Spike	101	106
880-13949-A-21-B MSD	Matrix Spike Duplicate	99	106
890-2216-A-1-E MS	Matrix Spike	100	105
890-2216-A-1-F MSD	Matrix Spike Duplicate	99	106
890-2221-1	PH01	113	104
890-2221-2	PH01A	105	104
890-2221-3	PH01B	104	105
890-2221-4	PH02	104	102
890-2221-5	PH02A	101	100
890-2221-6	PH02B	103	103
890-2221-7	PH03	101	103
890-2221-8	PH03A	107	106
890-2221-9	PH04	104	103
890-2221-10	PH04A	108	103
890-2221-11	PH05	107	104
890-2221-12	PH05A	103	104
890-2221-13	BH01	108	104
890-2221-14	BH01A	86	95
890-2221-15	BH01B	106	101
890-2221-15	BH01B	104	101
LCS 880-23912/1-A	Lab Control Sample	82	10 S1-
LCS 880-23951/1-A	Lab Control Sample	99	101
LCS 880-23953/1-A	Lab Control Sample	95	103
LCS 880-24111/1-A	Lab Control Sample	97	95
LCSD 880-23912/2-A	Lab Control Sample Dup	82	100
LCSD 880-23951/2-A	Lab Control Sample Dup	96	104
LCSD 880-23953/2-A	Lab Control Sample Dup	96	100
LCSD 880-24111/2-A	Lab Control Sample Dup	99	99
MB 880-23912/5-A	Method Blank	64 S1-	89
MB 880-23948/5-A	Method Blank	99	101
MB 880-23951/5-A	Method Blank	98	104
MB 880-23953/5-A	Method Blank	98	103
MB 880-24111/5-A	Method Blank	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2221-1	PH01	95	106
890-2221-1 MS	PH01	90	94

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2221-1 MSD	PH01	88	92
890-2221-2	PH01A	91	102
890-2221-3	PH01B	89	100
890-2221-4	PH02	90	100
890-2221-5	PH02A	90	98
890-2221-6	PH02B	91	102
890-2221-7	PH03	90	97
890-2221-8	PH03A	108	124
890-2221-9	PH04	83	89
890-2221-10	PH04A	85	90
890-2221-11	PH05	87	95
890-2221-12	PH05A	91	101
890-2221-13	BH01	87	95
890-2221-14	BH01A	99	112
890-2221-15	BH01B	90	99
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-23947/2-A	Lab Control Sample	108	130
LCSD 880-23947/3-A	Lab Control Sample Dup	110	132 S1+
MB 880-23947/1-A	Method Blank	88	102
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23912/5-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:54	04/21/22 12:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:54	04/21/22 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	04/21/22 09:54	04/21/22 12:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/21/22 09:54	04/21/22 12:11	1

Lab Sample ID: LCS 880-23912/1-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08772		mg/Kg		88	70 - 130
Toluene	0.100	0.08660		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08794		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1768		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08664		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	10	S1-	70 - 130

Lab Sample ID: LCSD 880-23912/2-A

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09280		mg/Kg		93	70 - 130	6	35
Toluene	0.100	0.08850		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.09034		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	1	35
o-Xylene	0.100	0.08836		mg/Kg		88	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-13710-A-10-E MS

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1071		mg/Kg		107	70 - 130
Toluene	<0.00200	U	0.0998	0.09008		mg/Kg		90	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: 880-13710-A-10-E MS

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.07967		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0998	0.07941		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-13710-A-10-F MSD

Matrix: Solid

Analysis Batch: 23884

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.1044		mg/Kg		105	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.09975		mg/Kg		100	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0996	0.09748		mg/Kg		98	70 - 130	20	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1960		mg/Kg		98	70 - 130	19	35
o-Xylene	<0.00200	U	0.0996	0.09803		mg/Kg		98	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-23948/5-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23948

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 14:40	04/23/22 01:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 14:40	04/23/22 01:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 14:40	04/23/22 01:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 14:40	04/23/22 01:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 14:40	04/23/22 01:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 14:40	04/23/22 01:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/22 14:40	04/23/22 01:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/21/22 14:40	04/23/22 01:15	1

Lab Sample ID: MB 880-23951/5-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23951

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:01	04/23/22 17:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:01	04/23/22 17:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:01	04/23/22 17:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 15:01	04/23/22 17:14	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-23951/5-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23951

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:01	04/23/22 17:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 15:01	04/23/22 17:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/21/22 15:01	04/23/22 17:14	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/22 15:01	04/23/22 17:14	1

Lab Sample ID: LCS 880-23951/1-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07802		mg/Kg		78	70 - 130
Toluene	0.100	0.09379		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09701		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1958		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09895		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-23951/2-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23951

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08535		mg/Kg		85	70 - 130	9	35
Toluene	0.100	0.09393		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.09600		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	3	35
o-Xylene	0.100	0.09562		mg/Kg		96	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-13949-A-21-A MS

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1123		mg/Kg		112	70 - 130
Toluene	<0.00199	U	0.100	0.1101		mg/Kg		110	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.09898		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2028		mg/Kg		101	70 - 130
o-Xylene	<0.00199	U	0.100	0.09483		mg/Kg		94	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: 880-13949-A-21-A MS

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23951

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-13949-A-21-B MSD

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.1169		mg/Kg		118	70 - 130	4	35
Toluene	<0.00199	U	0.0994	0.1155		mg/Kg		116	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0994	0.1008		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2061		mg/Kg		104	70 - 130	2	35
o-Xylene	<0.00199	U	0.0994	0.09749		mg/Kg		98	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-23953/5-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23953

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 15:18	04/22/22 13:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/21/22 15:18	04/22/22 13:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/21/22 15:18	04/22/22 13:37	1

Lab Sample ID: LCS 880-23953/1-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08351		mg/Kg		84	70 - 130
Toluene	0.100	0.09267		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09526		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09413		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: LCS 880-23953/1-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23953

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-23953/2-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23953

	LCS	LCS									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Benzene	0.100	0.08219		mg/Kg		82	70 - 130	2	35		
Toluene	0.100	0.09657		mg/Kg		97	70 - 130	4	35		
Ethylbenzene	0.100	0.09862		mg/Kg		99	70 - 130	3	35		
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130	4	35		
o-Xylene	0.100	0.09882		mg/Kg		99	70 - 130	5	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2216-A-1-E MS

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23953

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Analyte											
Benzene	<0.00201	U	0.100	0.08703		mg/Kg		87	70 - 130		
Toluene	<0.00201	U	0.100	0.08753		mg/Kg		87	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.07868		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1546		mg/Kg		77	70 - 130		
o-Xylene	<0.00201	U	0.100	0.07694		mg/Kg		77	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2216-A-1-F MSD

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23953

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Analyte											
Benzene	<0.00201	U	0.0996	0.08359		mg/Kg		84	70 - 130	4	35
Toluene	<0.00201	U	0.0996	0.08837		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0996	0.08567		mg/Kg		86	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1705		mg/Kg		86	70 - 130	10	35
o-Xylene	<0.00201	U	0.0996	0.08421		mg/Kg		85	70 - 130	9	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-24111/5-A

Matrix: Solid

Analysis Batch: 24110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24111

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 01:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 01:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 01:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/24/22 22:21	04/25/22 01:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/24/22 22:21	04/25/22 01:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/24/22 22:21	04/25/22 01:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/24/22 22:21	04/25/22 01:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/24/22 22:21	04/25/22 01:09	1

Lab Sample ID: LCS 880-24111/1-A

Matrix: Solid

Analysis Batch: 24110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07124		mg/Kg		71	70 - 130
Toluene	0.100	0.09089		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09549		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09767		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-24111/2-A

Matrix: Solid

Analysis Batch: 24110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.07926		mg/Kg		79	70 - 130	11	35
Toluene	0.100	0.09758		mg/Kg		98	70 - 130	7	35
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	6	35
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-13850-A-1-H MS

Matrix: Solid

Analysis Batch: 24110

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09875		mg/Kg		99	70 - 130
Toluene	<0.00200	U F1	0.100	0.1308	F1	mg/Kg		131	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: 880-13850-A-1-H MS

Matrix: Solid

Analysis Batch: 24110

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1271		mg/Kg		127	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.2702	F1	mg/Kg		135	70 - 130
o-Xylene	<0.00200	U	0.100	0.1254		mg/Kg		125	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-13850-A-1-I MSD

Matrix: Solid

Analysis Batch: 24110

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24111

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.1096		mg/Kg		110	70 - 130	10	35
Toluene	<0.00200	U F1	0.0996	0.1232		mg/Kg		124	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0996	0.1164		mg/Kg		117	70 - 130	9	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.2439		mg/Kg		122	70 - 130	10	35
o-Xylene	<0.00200	U	0.0996	0.1147		mg/Kg		115	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-23947/1-A

Matrix: Solid

Analysis Batch: 24094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23947

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 11:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 11:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 14:06	04/23/22 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	04/21/22 14:06	04/23/22 11:38	1
o-Terphenyl	102		70 - 130	04/21/22 14:06	04/23/22 11:38	1

Lab Sample ID: LCS 880-23947/2-A

Matrix: Solid

Analysis Batch: 24094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	873.0		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1038		mg/Kg		104	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

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

Lab Sample ID: LCS 880-23947/2-A

Matrix: Solid

Analysis Batch: 24094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23947

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	108		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-23947/3-A

Matrix: Solid

Analysis Batch: 24094

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23947

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	861.5		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1042		mg/Kg		104	70 - 130	0	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	110		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 890-2221-1 MS

Matrix: Solid

Analysis Batch: 24094

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 23947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	956.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	851.5		mg/Kg		83	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	90		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-2221-1 MSD

Matrix: Solid

Analysis Batch: 24094

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 23947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	953.6		mg/Kg		94	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	838.8		mg/Kg		82	70 - 130	2	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	88		70 - 130
o-Terphenyl	92		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23943/1-A

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/25/22 18:06	1

Lab Sample ID: LCS 880-23943/2-A

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-23943/3-A

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.4		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 890-2221-1 MS

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	124		250	369.9		mg/Kg		98	90 - 110

Lab Sample ID: 890-2221-1 MSD

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	124		250	369.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2221-11 MS

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: PH05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.8		250	298.1		mg/Kg		99	90 - 110

Lab Sample ID: 890-2221-11 MSD

Matrix: Solid

Analysis Batch: 24185

Client Sample ID: PH05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.8		250	297.6		mg/Kg		99	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

GC VOA

Analysis Batch: 23884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-14	BH01A	Total/NA	Solid	8021B	23912
MB 880-23912/5-A	Method Blank	Total/NA	Solid	8021B	23912
LCS 880-23912/1-A	Lab Control Sample	Total/NA	Solid	8021B	23912
LCSD 880-23912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23912
880-13710-A-10-E MS	Matrix Spike	Total/NA	Solid	8021B	23912
880-13710-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23912

Prep Batch: 23912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-14	BH01A	Total/NA	Solid	5035	
MB 880-23912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13710-A-10-E MS	Matrix Spike	Total/NA	Solid	5035	
880-13710-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 23948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23948/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23951/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23951/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23951/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13949-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-13949-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 23953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Total/NA	Solid	5035	
890-2221-2	PH01A	Total/NA	Solid	5035	
890-2221-3	PH01B	Total/NA	Solid	5035	
890-2221-4	PH02	Total/NA	Solid	5035	
890-2221-5	PH02A	Total/NA	Solid	5035	
890-2221-6	PH02B	Total/NA	Solid	5035	
890-2221-7	PH03	Total/NA	Solid	5035	
890-2221-8	PH03A	Total/NA	Solid	5035	
890-2221-9	PH04	Total/NA	Solid	5035	
890-2221-10	PH04A	Total/NA	Solid	5035	
890-2221-11	PH05	Total/NA	Solid	5035	
890-2221-12	PH05A	Total/NA	Solid	5035	
890-2221-13	BH01	Total/NA	Solid	5035	
MB 880-23953/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23953/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23953/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2216-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2216-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

GC VOA

Analysis Batch: 23987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Total/NA	Solid	8021B	23953
890-2221-2	PH01A	Total/NA	Solid	8021B	23953
890-2221-3	PH01B	Total/NA	Solid	8021B	23953
890-2221-4	PH02	Total/NA	Solid	8021B	23953
890-2221-5	PH02A	Total/NA	Solid	8021B	23953
890-2221-6	PH02B	Total/NA	Solid	8021B	23953
890-2221-7	PH03	Total/NA	Solid	8021B	23953
890-2221-8	PH03A	Total/NA	Solid	8021B	23953
890-2221-9	PH04	Total/NA	Solid	8021B	23953
890-2221-10	PH04A	Total/NA	Solid	8021B	23953
890-2221-11	PH05	Total/NA	Solid	8021B	23953
890-2221-12	PH05A	Total/NA	Solid	8021B	23953
890-2221-13	BH01	Total/NA	Solid	8021B	23953
890-2221-15	BH01B	Total/NA	Solid	8021B	24111
MB 880-23948/5-A	Method Blank	Total/NA	Solid	8021B	23948
MB 880-23951/5-A	Method Blank	Total/NA	Solid	8021B	23951
MB 880-23953/5-A	Method Blank	Total/NA	Solid	8021B	23953
LCS 880-23951/1-A	Lab Control Sample	Total/NA	Solid	8021B	23951
LCS 880-23953/1-A	Lab Control Sample	Total/NA	Solid	8021B	23953
LCSD 880-23951/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23951
LCSD 880-23953/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23953
880-13949-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	23951
880-13949-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23951
890-2216-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	23953
890-2216-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23953

Analysis Batch: 24025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Total/NA	Solid	Total BTEX	
890-2221-2	PH01A	Total/NA	Solid	Total BTEX	
890-2221-3	PH01B	Total/NA	Solid	Total BTEX	
890-2221-4	PH02	Total/NA	Solid	Total BTEX	
890-2221-5	PH02A	Total/NA	Solid	Total BTEX	
890-2221-6	PH02B	Total/NA	Solid	Total BTEX	
890-2221-7	PH03	Total/NA	Solid	Total BTEX	
890-2221-8	PH03A	Total/NA	Solid	Total BTEX	
890-2221-9	PH04	Total/NA	Solid	Total BTEX	
890-2221-10	PH04A	Total/NA	Solid	Total BTEX	
890-2221-11	PH05	Total/NA	Solid	Total BTEX	
890-2221-12	PH05A	Total/NA	Solid	Total BTEX	
890-2221-13	BH01	Total/NA	Solid	Total BTEX	
890-2221-14	BH01A	Total/NA	Solid	Total BTEX	
890-2221-15	BH01B	Total/NA	Solid	Total BTEX	

Analysis Batch: 24110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-15	BH01B	Total/NA	Solid	8021B	24111
MB 880-24111/5-A	Method Blank	Total/NA	Solid	8021B	24111
LCS 880-24111/1-A	Lab Control Sample	Total/NA	Solid	8021B	24111
LCSD 880-24111/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24111
880-13850-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	24111

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

GC VOA (Continued)

Analysis Batch: 24110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13850-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24111

Prep Batch: 24111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-15	BH01B	Total/NA	Solid	5035	
MB 880-24111/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24111/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24111/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13850-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-13850-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 23947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Total/NA	Solid	8015NM Prep	
890-2221-2	PH01A	Total/NA	Solid	8015NM Prep	
890-2221-3	PH01B	Total/NA	Solid	8015NM Prep	
890-2221-4	PH02	Total/NA	Solid	8015NM Prep	
890-2221-5	PH02A	Total/NA	Solid	8015NM Prep	
890-2221-6	PH02B	Total/NA	Solid	8015NM Prep	
890-2221-7	PH03	Total/NA	Solid	8015NM Prep	
890-2221-8	PH03A	Total/NA	Solid	8015NM Prep	
890-2221-9	PH04	Total/NA	Solid	8015NM Prep	
890-2221-10	PH04A	Total/NA	Solid	8015NM Prep	
890-2221-11	PH05	Total/NA	Solid	8015NM Prep	
890-2221-12	PH05A	Total/NA	Solid	8015NM Prep	
890-2221-13	BH01	Total/NA	Solid	8015NM Prep	
890-2221-14	BH01A	Total/NA	Solid	8015NM Prep	
890-2221-15	BH01B	Total/NA	Solid	8015NM Prep	
MB 880-23947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2221-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2221-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Total/NA	Solid	8015B NM	23947
890-2221-2	PH01A	Total/NA	Solid	8015B NM	23947
890-2221-3	PH01B	Total/NA	Solid	8015B NM	23947
890-2221-4	PH02	Total/NA	Solid	8015B NM	23947
890-2221-5	PH02A	Total/NA	Solid	8015B NM	23947
890-2221-6	PH02B	Total/NA	Solid	8015B NM	23947
890-2221-7	PH03	Total/NA	Solid	8015B NM	23947
890-2221-8	PH03A	Total/NA	Solid	8015B NM	23947
890-2221-9	PH04	Total/NA	Solid	8015B NM	23947
890-2221-10	PH04A	Total/NA	Solid	8015B NM	23947
890-2221-11	PH05	Total/NA	Solid	8015B NM	23947
890-2221-12	PH05A	Total/NA	Solid	8015B NM	23947
890-2221-13	BH01	Total/NA	Solid	8015B NM	23947

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

GC Semi VOA (Continued)

Analysis Batch: 24094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-14	BH01A	Total/NA	Solid	8015B NM	23947
890-2221-15	BH01B	Total/NA	Solid	8015B NM	23947
MB 880-23947/1-A	Method Blank	Total/NA	Solid	8015B NM	23947
LCS 880-23947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23947
LCSD 880-23947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23947
890-2221-1 MS	PH01	Total/NA	Solid	8015B NM	23947
890-2221-1 MSD	PH01	Total/NA	Solid	8015B NM	23947

Analysis Batch: 24194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Total/NA	Solid	8015 NM	
890-2221-2	PH01A	Total/NA	Solid	8015 NM	
890-2221-3	PH01B	Total/NA	Solid	8015 NM	
890-2221-4	PH02	Total/NA	Solid	8015 NM	
890-2221-5	PH02A	Total/NA	Solid	8015 NM	
890-2221-6	PH02B	Total/NA	Solid	8015 NM	
890-2221-7	PH03	Total/NA	Solid	8015 NM	
890-2221-8	PH03A	Total/NA	Solid	8015 NM	
890-2221-9	PH04	Total/NA	Solid	8015 NM	
890-2221-10	PH04A	Total/NA	Solid	8015 NM	
890-2221-11	PH05	Total/NA	Solid	8015 NM	
890-2221-12	PH05A	Total/NA	Solid	8015 NM	
890-2221-13	BH01	Total/NA	Solid	8015 NM	
890-2221-14	BH01A	Total/NA	Solid	8015 NM	
890-2221-15	BH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Soluble	Solid	DI Leach	
890-2221-2	PH01A	Soluble	Solid	DI Leach	
890-2221-3	PH01B	Soluble	Solid	DI Leach	
890-2221-4	PH02	Soluble	Solid	DI Leach	
890-2221-5	PH02A	Soluble	Solid	DI Leach	
890-2221-6	PH02B	Soluble	Solid	DI Leach	
890-2221-7	PH03	Soluble	Solid	DI Leach	
890-2221-8	PH03A	Soluble	Solid	DI Leach	
890-2221-9	PH04	Soluble	Solid	DI Leach	
890-2221-10	PH04A	Soluble	Solid	DI Leach	
890-2221-11	PH05	Soluble	Solid	DI Leach	
890-2221-12	PH05A	Soluble	Solid	DI Leach	
890-2221-13	BH01	Soluble	Solid	DI Leach	
890-2221-14	BH01A	Soluble	Solid	DI Leach	
890-2221-15	BH01B	Soluble	Solid	DI Leach	
MB 880-23943/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23943/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23943/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2221-1 MS	PH01	Soluble	Solid	DI Leach	
890-2221-1 MSD	PH01	Soluble	Solid	DI Leach	
890-2221-11 MS	PH05	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

HPLC/IC (Continued)

Leach Batch: 23943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-11 MSD	PH05	Soluble	Solid	DI Leach	

Analysis Batch: 24185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2221-1	PH01	Soluble	Solid	300.0	23943
890-2221-2	PH01A	Soluble	Solid	300.0	23943
890-2221-3	PH01B	Soluble	Solid	300.0	23943
890-2221-4	PH02	Soluble	Solid	300.0	23943
890-2221-5	PH02A	Soluble	Solid	300.0	23943
890-2221-6	PH02B	Soluble	Solid	300.0	23943
890-2221-7	PH03	Soluble	Solid	300.0	23943
890-2221-8	PH03A	Soluble	Solid	300.0	23943
890-2221-9	PH04	Soluble	Solid	300.0	23943
890-2221-10	PH04A	Soluble	Solid	300.0	23943
890-2221-11	PH05	Soluble	Solid	300.0	23943
890-2221-12	PH05A	Soluble	Solid	300.0	23943
890-2221-13	BH01	Soluble	Solid	300.0	23943
890-2221-14	BH01A	Soluble	Solid	300.0	23943
890-2221-15	BH01B	Soluble	Solid	300.0	23943
MB 880-23943/1-A	Method Blank	Soluble	Solid	300.0	23943
LCS 880-23943/2-A	Lab Control Sample	Soluble	Solid	300.0	23943
LCSD 880-23943/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23943
890-2221-1 MS	PH01	Soluble	Solid	300.0	23943
890-2221-1 MSD	PH01	Soluble	Solid	300.0	23943
890-2221-11 MS	PH05	Soluble	Solid	300.0	23943
890-2221-11 MSD	PH05	Soluble	Solid	300.0	23943

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH01

Lab Sample ID: 890-2221-1

Date Collected: 04/20/22 09:30

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 16:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 12:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 18:33	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-2221-2

Date Collected: 04/20/22 09:35

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 16:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 20:19	CH	XEN MID

Client Sample ID: PH01B

Lab Sample ID: 890-2221-3

Date Collected: 04/20/22 09:45

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 17:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 20:28	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2221-4

Date Collected: 04/20/22 10:00

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 19:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH02

Lab Sample ID: 890-2221-4

Date Collected: 04/20/22 10:00

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 20:37	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-2221-5

Date Collected: 04/20/22 10:05

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 19:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 20:46	CH	XEN MID

Client Sample ID: PH02B

Lab Sample ID: 890-2221-6

Date Collected: 04/20/22 10:15

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 19:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 15:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 21:12	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2221-7

Date Collected: 04/20/22 10:20

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 20:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 15:30	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH03

Lab Sample ID: 890-2221-7

Date Collected: 04/20/22 10:20

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 21:21	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-2221-8

Date Collected: 04/20/22 10:35

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 20:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 15:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 21:30	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-2221-9

Date Collected: 04/20/22 10:40

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 20:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 21:39	CH	XEN MID

Client Sample ID: PH04A

Lab Sample ID: 890-2221-10

Date Collected: 04/20/22 10:55

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 21:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 21:48	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: PH05

Lab Sample ID: 890-2221-11

Date Collected: 04/20/22 12:00

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 21:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 21:57	CH	XEN MID

Client Sample ID: PH05A

Lab Sample ID: 890-2221-12

Date Collected: 04/20/22 12:15

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 21:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 22:23	CH	XEN MID

Client Sample ID: BH01

Lab Sample ID: 890-2221-13

Date Collected: 04/20/22 12:00

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/22/22 22:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 17:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			24185	04/25/22 22:32	CH	XEN MID

Client Sample ID: BH01A

Lab Sample ID: 890-2221-14

Date Collected: 04/20/22 12:05

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	23912	04/21/22 15:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23884	04/21/22 23:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Client Sample ID: BH01A

Lab Sample ID: 890-2221-14

Date Collected: 04/20/22 12:05

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			24185	04/25/22 22:59	CH	XEN MID

Client Sample ID: BH01B

Lab Sample ID: 890-2221-15

Date Collected: 04/20/22 12:15

Matrix: Solid

Date Received: 04/20/22 16:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	23987	04/23/22 23:59	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	24111	04/24/22 22:21	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	24111	04/24/22 22:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24110	04/25/22 03:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24025	04/22/22 11:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24194	04/25/22 13:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23947	04/21/22 14:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24094	04/23/22 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23943	04/21/22 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			24185	04/25/22 23:07	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: LOS MEDANOS

Job ID: 890-2221-1
SDG: 03E1558007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2221-1	PH01	Solid	04/20/22 09:30	04/20/22 16:34	1
890-2221-2	PH01A	Solid	04/20/22 09:35	04/20/22 16:34	2
890-2221-3	PH01B	Solid	04/20/22 09:45	04/20/22 16:34	4
890-2221-4	PH02	Solid	04/20/22 10:00	04/20/22 16:34	1
890-2221-5	PH02A	Solid	04/20/22 10:05	04/20/22 16:34	2
890-2221-6	PH02B	Solid	04/20/22 10:15	04/20/22 16:34	4
890-2221-7	PH03	Solid	04/20/22 10:20	04/20/22 16:34	1
890-2221-8	PH03A	Solid	04/20/22 10:35	04/20/22 16:34	4
890-2221-9	PH04	Solid	04/20/22 10:40	04/20/22 16:34	1
890-2221-10	PH04A	Solid	04/20/22 10:55	04/20/22 16:34	4
890-2221-11	PH05	Solid	04/20/22 12:00	04/20/22 16:34	1
890-2221-12	PH05A	Solid	04/20/22 12:15	04/20/22 16:34	4
890-2221-13	BH01	Solid	04/20/22 12:00	04/20/22 16:34	1
890-2221-14	BH01A	Solid	04/20/22 12:05	04/20/22 16:34	2
890-2221-15	BH01B	Solid	04/20/22 12:15	04/20/22 16:34	4



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum LLC	Company Name:	XTO Energy, Inc.
Address:	2351 W Northwest Hwy Suite 1203A	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX, 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	hbell@ensolum.com, tmorrissey@ensolum.com

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

Project Name:	Los Medanos	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	03E1558007	Due Date:	2 day TAT		
Project Location:	CC: 2094371001	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Conner Shore				
PO #:					
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	NM-003		
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.2		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading:	15.0		
Total Containers:		Corrected Temperature:	14.8		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
-----------------------	--------	--------------	--------------	-------	-----------	-----------	------------------	--------------------	-----------------

PH01	S	4/20/2022	930	1'	G	1	CHLORIDES (EPA: 300.0)		
PH01	S	4/20/2022	935	2'	G	1	TPH (8015)		
PH01	S	4/20/2022	945	4'	G	1	BTEX (8021)		
PH02	S	4/20/2022	1000	1'	G	1			
PH02	S	4/20/2022	1005	2'	G	1			
PH02	S	4/20/2022	1015	4'	G	1			
PH03	S	4/20/2022	1020	1'	G	1			
PH03	S	4/20/2022	1035	4'	G	1			
PH04	S	4/20/2022	1040	1'	G	1			
PH04	S	4/20/2022	1055	4'	G	1			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4.20.22 1634			



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum LLC	Company Name:	XTO Energy, Inc.
Address:	2351 W Northwest Hwy Suite 1203A	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX, 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	bbell@ensolum.com; tmorrissey@ensolum.com

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

Project Name:	Los Medanos	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	03E1558007	Due Date:	2 day TAT			None: NO	DI Water: H ₂ O										
Project Location:	CC: 2094371001	TAT starts the day received by the lab, if received by 4:30pm				Cool: Cool	MeOH: Me										
Sample's Name:	Conner Shore					HCL: HC	HNO ₃ : HN										
PO #:						H ₂ SO ₄ : H ₂	NaOH: Na										
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet/Let:	Yes No	H ₃ PO ₄ : HP											
Samples Received Intact:	Yes No	Thermometer ID:				NaHSO ₄ : NABIS											
Cooler Custody Seals:	Yes No N/A	Correction Factor:				Na ₂ S ₂ O ₃ : NaSO ₃											
Sample Custody Seals:	Yes No N/A	Temperature Reading:				Zn Acetate+NaOH: Zn											
Total Containers:		Corrected Temperature:				NaOH+Ascorbic Acid: SAPC											

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLOR	TPH (80	BTEX (80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
-----------------------	--------	--------------	--------------	-------	-----------	-----------	-------	---------	----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

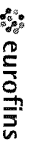
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/20/22 1634			
3		4			
5		6			

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

Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	IOC No
Client Contact: Shipping/Receiving				Phone	Kramer Jessica		890-716-1
Company: Eurofins Environment Testing South Central				E-Mail	Jessica.Kramer@eurofins.com	State of Origin: New Mexico	Page 1 of 2
Address: 1211 W Florida Ave				Accreditations Required (See note): NELAP - Texas			Job # 890-2221-1
City: Midland				Due Date Requested: 4/25/2022	Analysis Requested		
State, Zip: TX 79701				TAT Requested (days):			
Phone: 432-704-5440(Tel)				PO #			
Email: WQ #				Field Filtered Sample (Yes or No)			
Project Name: LOS MEDANOS				Perform MS/MSD (Yes or No)			
Site: SSOV#				8015MOD_NM/8015NM_S_Prep (MOD) Full TPH			
				8015MOD_Calc			
				300_ORGFMM_28D/DI_LEACH Chloride			
				8021B/8035FP_Calc (MOD) BTEX			
				Total_BTEX_GCV			
				Total Number of containers			
Sample Identification - Client ID (Lab ID)				Special Instructions/Note			
PH01 (890-2221-1)	Sample Date: 4/20/22	Sample Time: 09 30	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Trucks, A=Air)	Preservation Code:		
PH01 (890-2221-2)	4/20/22	09 35	Mountain	Solid			
PH01 (890-2221-3)	4/20/22	09 45	Mountain	Solid			
PH02 (890-2221-4)	4/20/22	10 00	Mountain	Solid			
PH02 (890-2221-5)	4/20/22	10 05	Mountain	Solid			
PH02 (890-2221-6)	4/20/22	10 15	Mountain	Solid			
PH03 (890-2221-7)	4/20/22	10 20	Mountain	Solid			
PH03 (890-2221-8)	4/20/22	10 35	Mountain	Solid			
PH04 (890-2221-9)	4/20/22	10 40	Mountain	Solid			
<p>Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.</p>							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by				Date	Time	Method of Shipment	
Relinquished by: <i>Cive up 4.21.22</i>				Date/Time		Date/Time	Company
Relinquished by:				Date/Time		Date/Time	Company
Relinquished by:				Date/Time		Date/Time	Company
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No			
				Cooler Temperature(s) °C and Other Remarks			

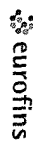
Eurofins Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2221-1

SDG Number: 03E1558007

Login Number: 2221

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2221-1

SDG Number: 03E1558007

Login Number: 2221

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/21/22 01:11 PM

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



APPENDIX E

NMOCD Notifications

Green, Garrett J

From: Baker, Adrian
Sent: Friday, April 15, 2022 8:27 AM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD
Cc: DelawareSpills /SM; Green, Garrett J
Subject: XTO Site Activities for the week of April 18th

Follow Up Flag: Follow up
Flag Status: Flagged

All,

XTO plans to complete final sampling activities at the following sites the week of April 18, 2022.

Tuesday

- JRU Legg / nAPP2204943884

Wednesday

- PLU RR 33-25-30 / nAPP2204125212
- Los Medanos / nAPP2204835360

Thursday

- Los Medanos / nAPP2204835360

Friday

- Pierce Canyon 32 / nAPP2205254615

Thank you,

Adrian Baker

Environmental Coordinator
Permian Business Unit

XTO Energy Inc.
6401 N. Holiday Hill Dr.
Midland, Tx 79707
Mobile:(432)-236-3808
adrian.baker@exxonmobil.com

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 103612

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 103612
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH. A variance is approved for 400 ft2 floor confirmation samples. Sidewall confirmation samples should be collected every 200 ft2. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. The work will need to occur in 90 days after the work plan has been approved.	6/27/2022