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	nAPP2226554118
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Armstrong Energy Corporation	OGRID 1092
Contact Name Jeffery Tew	Contact Telephone 575-623-2999
Contact email jtew@aecnm.com	Incident # *(assigned by OCD)* nAPP2226554118
Contact mailing address P.O. Box 1973 Roswell, NM 88202-1973	

Location of Release Source

Latitude 33.79337500 Longitude -103.46002500
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Touch of Grey State #001	Site Type Production Facility
Date Release Discovered 2/1/2022	API# *(if applicable)* 30-041-20960

Unit Letter	Section	Township	Range	County
L	15	06S	34E	Roosevelt

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) unkown	Volume Recovered (bbls) none
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Surficial soil discoloration observed by NMOCD during a site inspection. Surficial soil analytical results exceeded the Closure Criteria. Volume of releases is unknown and no fluids were recovered.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226554118
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 9/22/2022

email: jtew@aecnm.com Telephone: 575-420-7600

OCD Only

Received by: Date:

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226554118
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226554118
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: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 9/22/2022

email: jtew@aecnm.com Telephone: 575-420-7600

OCD Only

Received by: Jocelyn Harimon Date: 09/22/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226554118
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 9/22/2022

email: jtew@aecnm.com Telephone: 575-420-7600

OCD Only

Received by: Jocelyn Harimon Date: 09/22/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 09/27/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

July 29, 2022

District I - Hobbs
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Request
Touch of Grey State #001
Compliance Number cEZB223154630
Roosevelt County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Armstrong Energy Corporation (AEC), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Touch of Grey State #001 (Site), located in Unit L, Section 15, Township 6 South, Range 34 East, in Roosevelt County, New Mexico (**Figure 1 in Appendix A**). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from observations made by an inspector with the New Mexico Oil Conservation Division (NMOCD). Based on field observations and screening activities, excavation activities, and laboratory analytical results, AEC is submitting this Closure Request for Compliance Number cEZB223154630.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Roosevelt County, New Mexico (33.793335° N, 103.460325° W) and is associated with oil and gas exploration and production operations on New Mexico State Land. **Figure 2 in Appendix A** depicts the Site.

AEC contracted with Ensolum to assess discolored soil present east of the Site in the vicinity of the tank battery and surrounding area to the south-southeast on June 10, 2022. Based on visual discoloration of soil in and around the southern portion of the earthen secondary containment berm, an NMOCD inspector requested assessment of the soil for the presence or absence of impacts to soil. Soil analytical results from the initial soil sampling event on June 10, 2022 indicated there was a release of fluids to the surface and additional assessment and remediation appeared warranted. An unknown volume of fluids appears to have been released to the surface without any being recovered. The timing of the release is unknown at this time.

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 in Appendix A**.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a data collected from United States Geologicial Survey (USGS) well number 334610103252701, which was last measured on January 19, 2022. The total depth of the well is 165 feet bgs and depth to water of 120.04 fet bgs. The well is located approximately 2.3 miles southeast of the Site and therefore does not meet the NMOCD requirement for reasonably estimating the depth to water beneath the Site. The Well Record and Log is included in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is greater than 300 feet away. 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).

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) 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On June 10, 2022, site assessment activities were conducted to evaluate the suspected release based on information visual observations provided by NMOCD. Ensolum personnel collected three surficial soil samples (SS01 through SS03) within the discolored caliched area in and around the southern portion of the tank battery to assess for the presence or absence of impacts to soil associated with discoloration of the caliche observed by NMOCD. Discrete soil samples were collected from each location at approximately 0.5 feet bgs and field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips, respectively. The soil sample locations are depicted on **Figure 2 in Appendix A**. Photographic documentation was conducted during the Site visit. A photographic log is included in **Appendix C**.

The 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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the surficial soil samples SS01 and SS02, located inside the secondary containment of the tank battery, indicated chloride concentrations exceeded the Site Closure Criteria. In addition, the TPH concentration in soil from SS01 exceeded the Closure Criteria. Benzene, BTEX, and TPH concentrations in soil sample SS03, located outside of the secondary containment to the southeast, were compliant with the Closure Criteria. Laboratory analytical results depicted on **Figure 2 in Appendix A** and are summarized in **Table 1 in Appendix D**. The complete laboratory analytical report is included as **Appendix E**.

Based on the surficial soil sample results, additional delineation activities appeared warranted to define the vertical and lateral extents of contamination of chloride and TPH. On June 24, 2022, Ensolum was

onsite to complete delineation activities via hand auger. A total of six boreholes (BH01 through BH06) were advanced in and around the discolored area south of the tanks; Boreholes BH01 and BH02 were advanced inside the disolored area for vertical extent of contamination and boreholes BH03 through BH06 were advance in all cardinal directions to laterally delineate the extent of contamination.

Field screening results and observations from the boreholes were documented on lithologic/soil sampling logs, which which are included as **Appendix F**. The boreholes were backfilled with soil removed following sampling activities. The borehole and soil sample locations are depicted on **Figure 2 in Appendix A**. Soil from the boreholes were field screened for volatile aromatic hydrocarbons and chloride. Soil samples from the hightest field screening depth and the terminus of each borehole were collected and jarred for laboratory analysis of BTEX, TPH, and chloride.

Laboratory analytical results for the delineation soil samples from borehole BH01 and BH02 indicated chloride concentrations exceeded the Site Closure Criteria to a depth of approximately 3 feet bgs. Benzene, BTEX, and TPH concentrations in soil samples from boreholes BH01 and BH02 were compliant with the Closure Criteria. Soil from lateral boreholes BH03 through BH06 indicated concentrations of BTEX, TPH, and chloride were compliant with the Closure Criteria. Laboratory analytical results depicted on **Figure 2 in Appendix A** and are summarized in **Table 1 in Appendix D**. The complete laboratory analytical report is included as **Appendix E**.

EXCAVATION ACTIVITIES

Based on soil analytical results from delineation activities, remediation of chloride and TPH-impacted soil appeared warranted. As such, Ensolum oversaw the excavation and proper disposal of impacted soil on July 8, 2022. Excavation activities were directed by previously failed soil sample locations and field screening for volatile aromatic hydrocarbons and chloride. Upon identifying field screening results indicating impacted soils were adequately remediated, Ensolum proceeded to collect confirmation soil samples from the floor and sidewalls of the excavation. The total areal extent of the excavation was approximately 645 square feet in size and with an average depth of approximately 4 feet bgs, totaling approximately 96 cubic yards of impacted material removed from the Site. The impacted soil was properly disposed of at a New Mexico-permitted land farm, specifically to the Gandy Marley, Inc. Commercial Landfill (NM-01-0019) located in Roswell, New Mexico.

Ensolum collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS09 were collected from the floor of the excavations at approximately 4 feet bgs. Composite soil samples SW01 through SW03 were collected from the sidewalls at the ground surface to approximately 4 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extents and excavation soil sample locations are presented on **Figure 3 in Appendix A**. Photographic documentation of the excavation is presented in **Appendix C**.

Analytical results from all confirmation soil samples collected on July 11, 2022 indicated benzene, BTEX, TPH, and chloride were in compliance with the Closure Criteria. **Table 1 in Appendix D** summarizes confirmation soil analytical results. The complete laboratory analytical report is included as **Appendix E**.

CLOSURE REQUEST

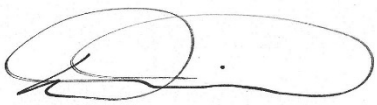
In total, 96 cubic yards of chloride and TPH-impacted soil were excavated and properly disposed of at a New Mexico permitted landfill. The excavation has been fenced off and non-waste containing caliche

has been stockpiled next to the excavation in preparation of backfilling once NMOCD give approval to do so.

Based on initial delineation and follow-up excavation activities, and results of the confirmation soil samples, it appears this remediation action has been protective of human health, the environment, and groundwater. As such, AEC respectfully requests closure for Compliance Number cEZB223154630.

If you have any questions or comments, please contact Mr. Daniel Moir at (303) 887-2946 or dmoir@ensolum.com.

Sincerely,
Ensolum, LLC



Daniel R. Moir, P.G.
Senior Managing Geologist

cc: Jeff Tew, Armstrong Energy Corporation

Appendices:

Appendix A Figures
- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Confirmation Soil Sample Locations

Appendix B Well Record and Log
Appendix C Photographic Log
Appendix D Table
- Table 1 Soil Sample Analytical Results

Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F Lithologic Soil Sampling Logs

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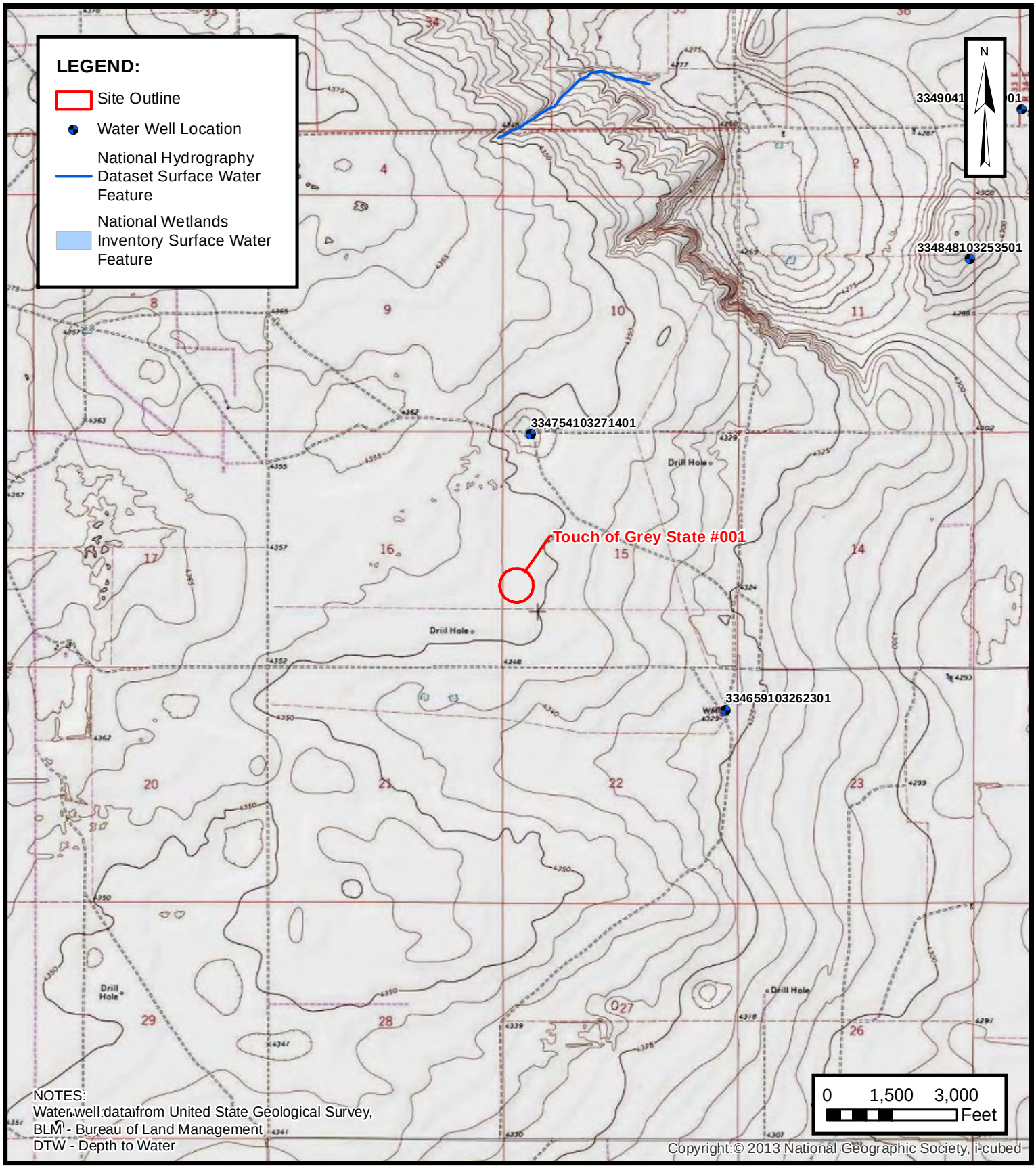
APPENDIX A

Figures



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Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

ARMSTRONG ENERGY CORPORATION
TOUCH OF GREY STATE #001
NAPP######
Unit L, Sec 15, T6S, R34E
Roosevelt County, New Mexico

FIGURE
1

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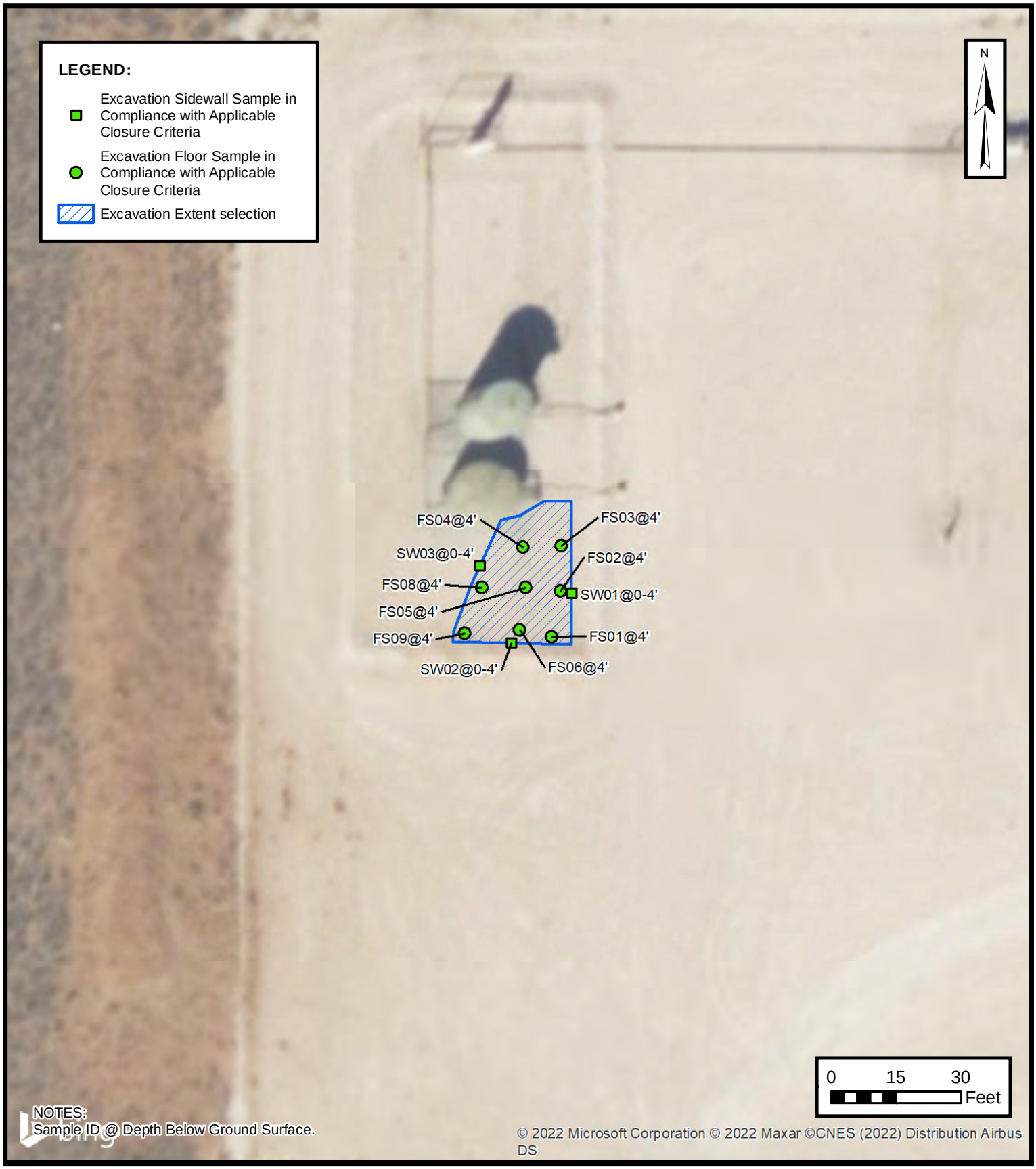
DELINEATION SOIL SAMPLE LOCATIONS

ARMSTRONG ENERGY CORPORATION
TOUCH OF GREY STATE #001
NAPP######
Unit L, Sec 15, T6S, R34E
Roosevelt County, New Mexico

FIGURE
2



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EXCAVATION SOIL SAMPLE LOCATIONS

ARMSTRONG ENERGY CORPORATION
TOUCH OF GREY STATE #001
NAPP######
Unit L, Sec 15, T6S, R34E
Roosevelt County, New Mexico

FIGURE
3

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APPENDIX B

Well Record and Log

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Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 334610103252701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 334610103252701 06S.34E.26.22222

Roosevelt County, New Mexico
Latitude 33°46'26.3", Longitude 103°25'38.8" NAD83
Land-surface elevation 4,299 feet above NAVD88
The depth of the well is 165 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1975-03-25		D	62610		4160.48	NGVD29	1	Z		
1975-03-25		D	62611		4162.31	NAVD88	1	Z		
1975-03-25		D	72019	136.69			1	Z		
1980-01-16		D	62610		4161.39	NGVD29	1	Z		
1980-01-16		D	62611		4163.22	NAVD88	1	Z		
1980-01-16		D	72019	135.78			1	Z		
1985-02-06		D	62610		4162.01	NGVD29	1	Z		
1985-02-06		D	62611		4163.84	NAVD88	1	Z		
1985-02-06		D	72019	135.16			1	Z		
1989-12-20		D	62610		4162.54	NGVD29	1	Z		
1989-12-20		D	62611		4164.37	NAVD88	1	Z		
1989-12-20		D	72019	134.63			1	Z		
1995-01-19		D	62610		4163.68	NGVD29	1	S		
1995-01-19		D	62611		4165.51	NAVD88	1	S		
1995-01-19		D	72019	133.49			1	S		
2016-01-27	17:40 UTC	m	62610		4166.65	NGVD29	1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
2016-01-27	17:40 UTC	m	62611		4168.48	NAVD88	1	S	USGS	
2016-01-27	17:40 UTC	m	72019	130.52			1	S	USGS	
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2021-02-04	18:56 UTC	m	62611		4169.58	NAVD88	1	V	USGS	
2021-02-04	18:56 UTC	m	72019	129.42			1	V	USGS	
2022-01-19	18:59 UTC	m	62610		4177.13	NGVD29	1	V	USGS	
2022-01-19	18:59 UTC	m	62611		4178.96	NAVD88	1	V	USGS	
2022-01-19	18:59 UTC	m	72019	120.04			1	V	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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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: 2022-07-21 11:03:23 EDT
0.28 0.24 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Search Results -- 1 sites found

site_no list =

- 334610103252701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

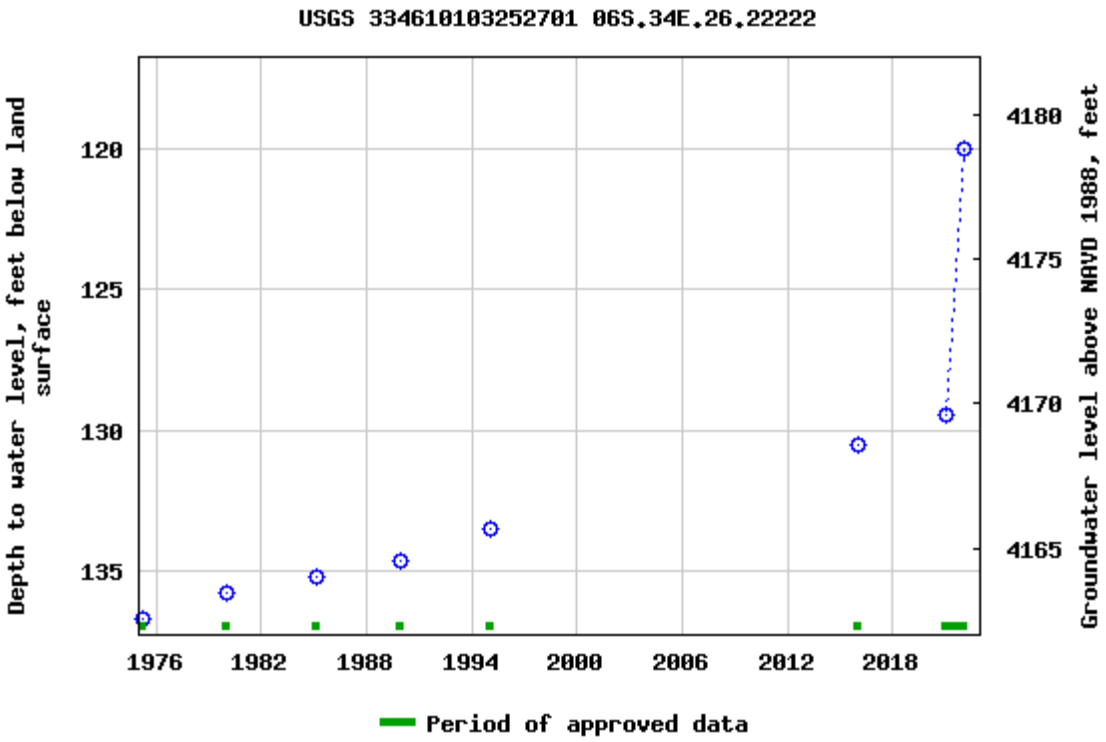
USGS 334610103252701 06S.34E.26.22222

Available data for this site | Groundwater: Field measurements | GO

Roosevelt County, New Mexico
Hydrologic Unit Code 12050001
Latitude 33°46'26.3", Longitude 103°25'38.8" NAD83
Land-surface elevation 4,299 feet above NAVD88
The depth of the well is 165 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) 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.
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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: 2022-07-21 11:02:54 EDT
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ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Armstrong Energy Corporation Touch
of Grey State #001
Compliance Number cEZB223154630
Ensolum Job Number: 09C2041002

Photograph 1
Date: 6/10/2022 - southeast side of the tank battery, view northwest

Photograph 2
Date: 6/10/2022 - Discoloration observed inside secondary containment, view northwest

Photograph 3
Date: 6/10/2022 - tank battery, view southwest.

Photograph 4
Date: 7/8/2022 - excavation extent, view northeast.

ENSOLUM

APPENDIX D

Table

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Armstrong Energy Corporation - Touch of Grey State #001
Roosevelt County, New Mexico

Ensolum Project No. 09C2041002

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater <50 feet)			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
Delineation Soil Sample Analytical Results												
SS01	6/10/2022	0.5	<0.00201	0.00423	0.00571	0.0663	0.0762	<49.9	194	60.1	**254**	**11,800**
SS02	6/10/2022	0.5	<0.00202	0.00223	0.00483	0.0591	0.0662	<50.0	<50.0	<50.0	<50.0	**5,620**
SS03	6/10/2022	0.5	<0.00202	0.0236	0.0131	0.183	0.219	<49.9	<49.9	<49.9	<49.9	34.3
BH01	6/24/2022	0.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**3,470**
BH01A	6/24/2022	3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	226
BH02	6/24/2022	3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,010**
BH02A	6/24/2022	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	166
BH03	6/24/2022	0.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	161
BH03A	6/24/2022	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	271
BH04	6/24/2022	0.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	142
BH04A	6/24/2022	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	308
BH05	6/24/2022	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	579
BH05A	6/24/2022	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	312
BH06	6/24/2022	0.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	6.35
BH06A	6/24/2022	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	184
Excavation Confirmation Soil Sample Analytical Results												
FS01	7/11/2022	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	418
FS02	7/11/2022	4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	99.5
FS03	7/11/2022	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	159
FS04	7/11/2022	4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	95.5
FS05	7/11/2022	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	50.8
FS06	7/11/2022	4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	19.0
FS07	7/11/2022	4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	24.8
FS08	7/11/2022	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	114
FS09	7/11/2022	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	13.1
SW01	7/11/2022	0-4	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.8	<49.8	<49.8	<49.8	<4.99
SW02	7/11/2022	0-4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	28.0
SW03	7/11/2022	0-4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	12.3

Notes:

bgs: below ground surface

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

NS: Not Sampled

NMOCD: New Mexico Oil Conservation Division

PID: Photoionization Detector

ppm: parts per million

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<49.9: indicates result less than the stated laboratory reporting limit (RL)

*Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release*

Gray text indicates sample locations were excavated and are no longer present

ENSOLUM

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2408-1
Laboratory Sample Delivery Group: 09C2041002
Client Project/Site: Touch of Grey State COM 1

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

Attn: Daniel Moir

JKramer

Authorized for release by:
6/14/2022 1:48:04 PM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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: Touch of Grey State COM 1

Laboratory Job ID: 890-2408-1
SDG: 09C2041002

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2408-1
Project/Site: Touch of Grey State COM 1 SDG: 09C2041002

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Job ID: 890-2408-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2408-1

Receipt
The samples were received on 6/13/2022 9:28 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 5.8°C

GC VOA
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 laboratory control sample (LCS) associated with preparation batch 880-27449 and analytical batch 880-27351 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-27449/2-A), (LCSD 880-27449/3-A) and (890-2404-A-57-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.

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: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Client Sample ID: SS01

Lab Sample ID: 890-2408-1
Matrix: Solid
Date Collected: 06/10/22 17:30
Date Received: 06/13/22 09:28
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		06/13/22 13:48	06/13/22 18:33	1
Toluene	**0.00423**	**F1**	0.00201		mg/Kg		06/13/22 13:48	06/13/22 18:33	1
Ethylbenzene	**0.00571**	**F1**	0.00201		mg/Kg		06/13/22 13:48	06/13/22 18:33	1
m-Xylene & p-Xylene	**0.0540**	**F1**	0.00402		mg/Kg		06/13/22 13:48	06/13/22 18:33	1
o-Xylene	**0.0123**		0.00201		mg/Kg		06/13/22 13:48	06/13/22 18:33	1
Xylenes, Total	**0.0663**	**F1**	0.00402		mg/Kg		06/13/22 13:48	06/13/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/13/22 13:48*	*06/13/22 18:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/13/22 13:48*	*06/13/22 18:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0762**		0.00402		mg/Kg			06/14/22 09:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**254**		49.9		mg/Kg			06/14/22 09:33	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		06/13/22 16:14	06/14/22 00:51	1
Diesel Range Organics (Over C10-C28)	**194**	***+**	49.9		mg/Kg		06/13/22 16:14	06/14/22 00:51	1
Oil Range Organics (Over C28-C36)	**60.1**		49.9		mg/Kg		06/13/22 16:14	06/14/22 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/13/22 16:14*	*06/14/22 00:51*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/13/22 16:14*	*06/14/22 00:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11800**		99.6		mg/Kg			06/14/22 12:57	20

Client Sample ID: SS02

Lab Sample ID: 890-2408-2
Matrix: Solid
Date Collected: 06/10/22 17:35
Date Received: 06/13/22 09:28
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		06/13/22 13:48	06/13/22 18:54	1
Toluene	**0.00223**		0.00202		mg/Kg		06/13/22 13:48	06/13/22 18:54	1
Ethylbenzene	**0.00483**		0.00202		mg/Kg		06/13/22 13:48	06/13/22 18:54	1
m-Xylene & p-Xylene	**0.0466**		0.00404		mg/Kg		06/13/22 13:48	06/13/22 18:54	1
o-Xylene	**0.0125**		0.00202		mg/Kg		06/13/22 13:48	06/13/22 18:54	1
Xylenes, Total	**0.0591**		0.00404		mg/Kg		06/13/22 13:48	06/13/22 18:54	1

Client Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Client Sample ID: SS02

Date Collected: 06/10/22 17:35
Date Received: 06/13/22 09:28
Sample Depth: 0.5

Lab Sample ID: 890-2408-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/13/22 13:48*	*06/13/22 18:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 13:48*	*06/13/22 18:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0662**		0.00404		mg/Kg			06/14/22 09:13	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			06/14/22 09:33	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		06/13/22 16:14	06/14/22 01:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 16:14	06/14/22 01:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 16:14	06/14/22 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*97*		*70 - 130*	*06/13/22 16:14*	*06/14/22 01:11*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/13/22 16:14*	*06/14/22 01:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5620**		50.3		mg/Kg			06/14/22 13:05	10

Client Sample ID: SS03

Date Collected: 06/10/22 17:40
Date Received: 06/13/22 09:28
Sample Depth: 0.5

Lab Sample ID: 890-2408-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/22 13:48	06/13/22 19:14	1
Toluene	**0.0236**		0.00202		mg/Kg		06/13/22 13:48	06/13/22 19:14	1
Ethylbenzene	**0.0131**		0.00202		mg/Kg		06/13/22 13:48	06/13/22 19:14	1
m-Xylene & p-Xylene	**0.151**		0.00403		mg/Kg		06/13/22 13:48	06/13/22 19:14	1
o-Xylene	**0.0316**		0.00202		mg/Kg		06/13/22 13:48	06/13/22 19:14	1
Xylenes, Total	**0.183**		0.00403		mg/Kg		06/13/22 13:48	06/13/22 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/13/22 13:48*	*06/13/22 19:14*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/13/22 13:48*	*06/13/22 19:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.219**		0.00403		mg/Kg			06/14/22 09:13	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			06/14/22 09:33	1

Client Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Client Sample ID: SS03

Date Collected: 06/10/22 17:40
Date Received: 06/13/22 09:28
Sample Depth: 0.5

Lab Sample ID: 890-2408-3

Matrix: Solid

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		06/13/22 16:14	06/14/22 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		06/13/22 16:14	06/14/22 01:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 16:14	06/14/22 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/13/22 16:14*	*06/14/22 01:32*	*1*
o-Terphenyl	*112*		*70 - 130*	*06/13/22 16:14*	*06/14/22 01:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.3**		5.00		mg/Kg			06/14/22 06:02	1

Surrogate Summary

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2408-1	SS01	111	95
890-2408-1 MS	SS01	115	99
890-2408-1 MSD	SS01	113	95
890-2408-2	SS02	121	92
890-2408-3	SS03	108	88
LCS 880-27445/1-A	Lab Control Sample	104	99
LCSD 880-27445/2-A	Lab Control Sample Dup	103	100
MB 880-27445/5-A	Method Blank	101	90

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2404-A-57-B MS	Matrix Spike	108	113
890-2404-A-57-C MSD	Matrix Spike Duplicate	97	105
890-2408-1	SS01	98	115
890-2408-2	SS02	97	114
890-2408-3	SS03	99	112
LCS 880-27449/2-A	Lab Control Sample	125	137 S1+
LCSD 880-27449/3-A	Lab Control Sample Dup	123	132 S1+
MB 880-27449/1-A	Method Blank	104	125

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27445/5-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27445

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/22 13:48	06/13/22 18:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/22 13:48	06/13/22 18:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/22 13:48	06/13/22 18:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/22 13:48	06/13/22 18:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/22 13:48	06/13/22 18:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/22 13:48	06/13/22 18:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/13/22 13:48*	*06/13/22 18:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/13/22 13:48*	*06/13/22 18:12*	*1*

Lab Sample ID: LCS 880-27445/1-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27445

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09888		mg/Kg		99	70 - 130		
Toluene			0.100	0.09736		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1022		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2087		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1050		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-27445/2-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08909		mg/Kg		89	70 - 130	10	35
Toluene			0.100	0.08588		mg/Kg		86	70 - 130	13	35
Ethylbenzene			0.100	0.09250		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1885		mg/Kg		94	70 - 130	10	35
o-Xylene			0.100	0.09464		mg/Kg		95	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2408-1 MS
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 27445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.09215		mg/Kg		92	70 - 130		
Toluene	0.00423	F1	0.100	0.09015		mg/Kg		86	70 - 130		

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

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

Lab Sample ID: 890-2408-1 MS
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 27445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00571	F1	0.100	0.09119		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.0540	F1	0.200	0.2202		mg/Kg		83	70 - 130
o-Xylene	0.0123		0.100	0.1007		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2408-1 MSD
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 27445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.07166		mg/Kg		72	70 - 130	25	35
Toluene	0.00423	F1	0.0996	0.07254	F1	mg/Kg		69	70 - 130	22	35
Ethylbenzene	0.00571	F1	0.0996	0.07476	F1	mg/Kg		69	70 - 130	20	35
m-Xylene & p-Xylene	0.0540	F1	0.199	0.1825	F1	mg/Kg		64	70 - 130	19	35
o-Xylene	0.0123		0.0996	0.08388		mg/Kg		72	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 880-27449/1-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27449

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		06/13/22 16:14	06/13/22 22:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/22 16:14	06/13/22 22:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 16:14	06/13/22 22:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/13/22 16:14*	*06/13/22 22:06*	*1*
o-Terphenyl	*125*		*70 - 130*	*06/13/22 16:14*	*06/13/22 22:06*	*1*

Lab Sample ID: LCS 880-27449/2-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27449

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1174		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1455	*+	mg/Kg		145	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

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

Lab Sample ID: LCS 880-27449/2-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27449

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	137	S1+	70 - 130

Lab Sample ID: LCSD 880-27449/3-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27449

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1160		mg/Kg		116	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1434	*+	mg/Kg		143	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 890-2404-A-57-B MS
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27449

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	998	1066		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	1010		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-2404-A-57-C MSD
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27449

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	905.7		mg/Kg		91	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	941.1		mg/Kg		94	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27302/1-A
Matrix: Solid
Analysis Batch: 27457

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			06/14/22 01:35	1

Lab Sample ID: LCS 880-27302/2-A
Matrix: Solid
Analysis Batch: 27457

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.9		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-27302/3-A
Matrix: Solid
Analysis Batch: 27457

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	260.6		mg/Kg		104	90 - 110	3	20

Lab Sample ID: 880-15727-A-11-B MS
Matrix: Solid
Analysis Batch: 27457

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	2330	F1	1240	3749	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-15727-A-11-C MSD
Matrix: Solid
Analysis Batch: 27457

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	2330	F1	1240	3661		mg/Kg		107	90 - 110	2	20

Lab Sample ID: MB 880-27446/1-A
Matrix: Solid
Analysis Batch: 27482

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			06/14/22 08:38	1

Lab Sample ID: LCS 880-27446/2-A
Matrix: Solid
Analysis Batch: 27482

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	233.7		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-27446/3-A
Matrix: Solid
Analysis Batch: 27482

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	236.6		mg/Kg		95	90 - 110	1	20

QC Sample Results

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2407-A-11-C MS
Matrix: Solid
Analysis Batch: 27482

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	208		249	448.4		mg/Kg		96	90 - 110

Lab Sample ID: 890-2407-A-11-D MSD
Matrix: Solid
Analysis Batch: 27482

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	208		249	447.1		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

GC VOA

Analysis Batch: 27442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Total/NA	Solid	8021B	27445
890-2408-2	SS02	Total/NA	Solid	8021B	27445
890-2408-3	SS03	Total/NA	Solid	8021B	27445
MB 880-27445/5-A	Method Blank	Total/NA	Solid	8021B	27445
LCS 880-27445/1-A	Lab Control Sample	Total/NA	Solid	8021B	27445
LCSD 880-27445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27445
890-2408-1 MS	SS01	Total/NA	Solid	8021B	27445
890-2408-1 MSD	SS01	Total/NA	Solid	8021B	27445

Prep Batch: 27445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Total/NA	Solid	5035	
890-2408-2	SS02	Total/NA	Solid	5035	
890-2408-3	SS03	Total/NA	Solid	5035	
MB 880-27445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2408-1 MS	SS01	Total/NA	Solid	5035	
890-2408-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 27472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Total/NA	Solid	Total BTEX	
890-2408-2	SS02	Total/NA	Solid	Total BTEX	
890-2408-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 27351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Total/NA	Solid	8015B NM	27449
890-2408-2	SS02	Total/NA	Solid	8015B NM	27449
890-2408-3	SS03	Total/NA	Solid	8015B NM	27449
MB 880-27449/1-A	Method Blank	Total/NA	Solid	8015B NM	27449
LCS 880-27449/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27449
LCSD 880-27449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27449
890-2404-A-57-B MS	Matrix Spike	Total/NA	Solid	8015B NM	27449
890-2404-A-57-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27449

Prep Batch: 27449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Total/NA	Solid	8015NM Prep	
890-2408-2	SS02	Total/NA	Solid	8015NM Prep	
890-2408-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-27449/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27449/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2404-A-57-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2404-A-57-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

GC Semi VOA

Analysis Batch: 27480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Total/NA	Solid	8015 NM	
890-2408-2	SS02	Total/NA	Solid	8015 NM	
890-2408-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-3	SS03	Soluble	Solid	DI Leach	
MB 880-27302/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27302/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27302/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15727-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15727-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 27446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Soluble	Solid	DI Leach	
890-2408-2	SS02	Soluble	Solid	DI Leach	
MB 880-27446/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27446/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27446/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2407-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2407-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 27457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-3	SS03	Soluble	Solid	300.0	27302
MB 880-27302/1-A	Method Blank	Soluble	Solid	300.0	27302
LCS 880-27302/2-A	Lab Control Sample	Soluble	Solid	300.0	27302
LCSD 880-27302/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27302
880-15727-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	27302
880-15727-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27302

Analysis Batch: 27482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2408-1	SS01	Soluble	Solid	300.0	27446
890-2408-2	SS02	Soluble	Solid	300.0	27446
MB 880-27446/1-A	Method Blank	Soluble	Solid	300.0	27446
LCS 880-27446/2-A	Lab Control Sample	Soluble	Solid	300.0	27446
LCSD 880-27446/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27446
890-2407-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	27446
890-2407-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27446

Lab Chronicle

Client: Ensolum
Project/Site: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Client Sample ID: SS01

Lab Sample ID: 890-2408-1
Matrix: Solid
Date Collected: 06/10/22 17:30
Date Received: 06/13/22 09:28

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	27445	06/13/22 13:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/13/22 18:33	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27472	06/14/22 09:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27480	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27446	06/13/22 14:08	CH	XEN MID
Soluble	Analysis	300.0		20			27482	06/14/22 12:57	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2408-2
Matrix: Solid
Date Collected: 06/10/22 17:35
Date Received: 06/13/22 09:28

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	27445	06/13/22 13:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/13/22 18:54	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27472	06/14/22 09:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27480	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 01:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27446	06/13/22 14:08	CH	XEN MID
Soluble	Analysis	300.0		10			27482	06/14/22 13:05	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-2408-3
Matrix: Solid
Date Collected: 06/10/22 17:40
Date Received: 06/13/22 09:28

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	27445	06/13/22 13:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/13/22 19:14	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27472	06/14/22 09:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27480	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27302	06/13/22 10:31	SC	XEN MID
Soluble	Analysis	300.0		1			27457	06/14/22 06:02	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: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

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: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

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: Touch of Grey State COM 1

Job ID: 890-2408-1
SDG: 09C2041002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2408-1	SS01	Solid	06/10/22 17:30	06/13/22 09:28	0.5
890-2408-2	SS02	Solid	06/10/22 17:35	06/13/22 09:28	0.5
890-2408-3	SS03	Solid	06/10/22 17:40	06/13/22 09:28	0.5

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6/14/2022

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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: _____

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Project Manager:	Dan Moir	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 Nat'l. Parks Hwy.	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	3038872946	Email:	dmoir@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Tench of Grey State Com	Turn Around	☐ Routine ☒ Rush
Project Number:	09C2041002	Due Date:	6/14/22
Project Location:	Roosevelt County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Liz Chell		
PO #:	MA		

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#7
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.0
Total Containers:		Corrected Temperature:	5.8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300)
SS01	S	6/10/22	1730	0.5'	G	1				
SS02	↓	↓	1735	↓	↓	↓				
SS03	↓	↓	1740	↓	↓	↓				

ANALYSIS REQUEST

890-2408 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

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 Tl 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 Tl 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
1			6.13.22 0928			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 9/22/2022 3:20:10 PM

Released to Imaging: 9/27/2022 10:39:07 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2408-1
SDG Number: 09C2041002

Login Number: 2408
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: 890-2408-1
SDG Number: 09C2041002

Login Number: 2408
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 06/14/22 09:07 AM

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").	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2467-1
Laboratory Sample Delivery Group: 09C2041001
Client Project/Site: TOUCH OF GREY STATE COM #1

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

Attn: Daniel Moir

JKramer

Authorized for release by:
6/29/2022 10:28:14 AM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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: TOUCH OF GREY STATE COM #1

Laboratory Job ID: 890-2467-1
SDG: 09C2041001

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2467-1
Project/Site: TOUCH OF GREY STATE COM #1 SDG: 09C2041001

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Job ID: 890-2467-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2467-1

Receipt
The samples were received on 6/27/2022 9:09 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 5.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-28488 and analytical batch 880-28474 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision 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: Surrogate recovery for the following sample was outside control limits: (LCS 880-28506/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH01A (890-2467-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH02A (890-2467-4), BH03 (890-2467-5) and BH03A (890-2467-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH05A (890-2467-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-28506 and analytical batch 880-28522 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-28506 and analytical batch 880-28522 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.

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: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH01

Date Collected: 06/24/22 09:20
Date Received: 06/27/22 09:09
Sample Depth: 0.5

Lab Sample ID: 890-2467-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 21:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 21:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 21:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 15:29	06/27/22 21:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 21:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 15:29	06/27/22 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/27/22 15:29*	*06/27/22 21:57*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/27/22 15:29*	*06/27/22 21:57*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1 F1	49.9		mg/Kg		06/28/22 08:51	06/28/22 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 14:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*06/28/22 08:51*	*06/28/22 14:22*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/28/22 08:51*	*06/28/22 14:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3470**		25.1		mg/Kg			06/28/22 17:35	5

Client Sample ID: BH01A

Date Collected: 06/24/22 10:10
Date Received: 06/27/22 09:09
Sample Depth: 3

Lab Sample ID: 890-2467-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/27/22 22:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/27/22 22:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/27/22 22:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 15:29	06/27/22 22:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/27/22 22:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 15:29	06/27/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:29*	*06/27/22 22:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH01A

Date Collected: 06/24/22 10:10
Date Received: 06/27/22 09:09
Sample Depth: 3

Lab Sample ID: 890-2467-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:29*	*06/27/22 22:17*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	50.0	mg/Kg		06/28/22 08:51	06/28/22 15:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/28/22 08:51	06/28/22 15:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/28/22 08:51	06/28/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 15:26*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/28/22 08:51*	*06/28/22 15:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		4.97	mg/Kg			06/28/22 17:44	1

Client Sample ID: BH02

Date Collected: 06/24/22 10:30
Date Received: 06/27/22 09:09
Sample Depth: 3

Lab Sample ID: 890-2467-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/27/22 15:29	06/28/22 00:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/27/22 15:29	06/28/22 00:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/27/22 15:29	06/28/22 00:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/27/22 15:29	06/28/22 00:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/27/22 15:29	06/28/22 00:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/27/22 15:29	06/28/22 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/27/22 15:29*	*06/28/22 00:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:29*	*06/28/22 00:08*	*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			06/28/22 09:49	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			06/29/22 11:12	1

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH02

Date Collected: 06/24/22 10:30
Date Received: 06/27/22 09:09
Sample Depth: 3

Lab Sample ID: 890-2467-3
Matrix: Solid

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 *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 15:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 15:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*06/28/22 08:51*	*06/28/22 15:48*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/28/22 08:51*	*06/28/22 15:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		5.00		mg/Kg			06/28/22 17:54	1

Client Sample ID: BH02A

Date Collected: 06/24/22 11:00
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/27/22 15:29	06/28/22 00:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/27/22 15:29	06/28/22 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 00:28*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/27/22 15:29*	*06/28/22 00:28*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	49.8		mg/Kg		06/28/22 08:51	06/28/22 16:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/22 08:51	06/28/22 16:10	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 08:51	06/28/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 16:10*	*1*
o-Terphenyl	*123*		*70 - 130*	*06/28/22 08:51*	*06/28/22 16:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH02A

Lab Sample ID: 890-2467-4
Matrix: Solid
Date Collected: 06/24/22 11:00
Date Received: 06/27/22 09:09
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.95		mg/Kg			06/28/22 18:03	1

Client Sample ID: BH03

Lab Sample ID: 890-2467-5
Matrix: Solid
Date Collected: 06/24/22 11:20
Date Received: 06/27/22 09:09
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		06/27/22 15:29	06/28/22 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 15:29	06/28/22 00:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 00:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 15:29	06/28/22 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 00:48*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 00:48*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 16:32*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/28/22 08:51*	*06/28/22 16:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.00		mg/Kg			06/28/22 18:30	1

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH03A

Date Collected: 06/24/22 11:30
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 01:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 01:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 01:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/27/22 15:29	06/28/22 01:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 01:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/27/22 15:29	06/28/22 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/27/22 15:29*	*06/28/22 01:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 01:09*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 16:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 16:54*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/28/22 08:51*	*06/28/22 16:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		5.04		mg/Kg			06/28/22 18:40	1

Client Sample ID: BH014

Date Collected: 06/24/22 11:45
Date Received: 06/27/22 09:09
Sample Depth: 0.5

Lab Sample ID: 890-2467-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:29	06/28/22 01:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:29	06/28/22 01:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:29	06/28/22 01:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/27/22 15:29	06/28/22 01:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/27/22 15:29	06/28/22 01:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/27/22 15:29	06/28/22 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/27/22 15:29*	*06/28/22 01:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH014

Date Collected: 06/24/22 11:45
Date Received: 06/27/22 09:09
Sample Depth: 0.5

Lab Sample ID: 890-2467-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 01:29*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	50.0	mg/Kg		06/28/22 08:51	06/28/22 17:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/28/22 08:51	06/28/22 17:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/28/22 08:51	06/28/22 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*06/28/22 08:51*	*06/28/22 17:16*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/28/22 08:51*	*06/28/22 17:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		24.9	mg/Kg			06/28/22 19:35	5

Client Sample ID: BH04A

Date Collected: 06/24/22 11:55
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/22 15:29	06/28/22 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/22 15:29	06/28/22 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/22 15:29	06/28/22 01:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/27/22 15:29	06/28/22 01:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/22 15:29	06/28/22 01:50	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/27/22 15:29	06/28/22 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/27/22 15:29*	*06/28/22 01:50*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/27/22 15:29*	*06/28/22 01:50*	*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			06/28/22 09:49	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			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH04A

Date Collected: 06/24/22 11:55
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-8
Matrix: Solid

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 *1	49.8		mg/Kg		06/28/22 08:51	06/28/22 17:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/22 08:51	06/28/22 17:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 08:51	06/28/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*06/28/22 08:51*	*06/28/22 17:37*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/28/22 08:51*	*06/28/22 17:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**308**		4.99		mg/Kg			06/28/22 19:44	1

Client Sample ID: BH05

Date Collected: 06/24/22 12:25
Date Received: 06/27/22 09:09
Sample Depth: 2

Lab Sample ID: 890-2467-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 02:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 02:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 02:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/27/22 15:29	06/28/22 02:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 02:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/27/22 15:29	06/28/22 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:29*	*06/28/22 02:10*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 02:10*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*06/28/22 08:51*	*06/28/22 17:59*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/28/22 08:51*	*06/28/22 17:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH05

Date Collected: 06/24/22 12:25
Date Received: 06/27/22 09:09
Sample Depth: 2

Lab Sample ID: 890-2467-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	579		5.00		mg/Kg			06/28/22 19:53	1

Client Sample ID: BH05A

Date Collected: 06/24/22 12:30
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 15:29	06/28/22 02:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 15:29	06/28/22 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/27/22 15:29*	*06/28/22 02:30*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/27/22 15:29*	*06/28/22 02:30*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 18:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 18:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 18:20*	*1*
o-Terphenyl	*120*		*70 - 130*	*06/28/22 08:51*	*06/28/22 18:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312		4.98		mg/Kg			06/28/22 20:03	1

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH06

Date Collected: 06/24/22 12:45
Date Received: 06/27/22 09:09
Sample Depth: 0.5

Lab Sample ID: 890-2467-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/27/22 15:29	06/28/22 02:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/27/22 15:29	06/28/22 02:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/27/22 15:29	06/28/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:29*	*06/28/22 02:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/27/22 15:29*	*06/28/22 02:51*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 19:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*06/28/22 08:51*	*06/28/22 19:02*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/28/22 08:51*	*06/28/22 19:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.35**		4.95		mg/Kg			06/28/22 20:12	1

Client Sample ID: BH06A

Date Collected: 06/24/22 12:55
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-12
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 03:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 03:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 03:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/27/22 15:29	06/28/22 03:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/28/22 03:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/27/22 15:29	06/28/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/22 15:29*	*06/28/22 03:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH06A

Date Collected: 06/24/22 12:55
Date Received: 06/27/22 09:09
Sample Depth: 4

Lab Sample ID: 890-2467-12

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/27/22 15:29*	*06/28/22 03:11*	*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			06/28/22 09:49	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			06/29/22 11:12	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 *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 19:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 19:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*06/28/22 08:51*	*06/28/22 19:24*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/28/22 08:51*	*06/28/22 19:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		5.05		mg/Kg			06/28/22 20:21	1

Surrogate Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

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)
880-16266-A-39-E MS	Matrix Spike	103	96
880-16266-A-39-F MSD	Matrix Spike Duplicate	97	104
890-2467-1	BH01	103	102
890-2467-2	BH01A	100	100
890-2467-3	BH02	116	100
890-2467-4	BH02A	97	94
890-2467-5	BH03	97	97
890-2467-6	BH03A	99	97
890-2467-7	BH014	101	97
890-2467-8	BH04A	102	96
890-2467-9	BH05	98	97
890-2467-10	BH05A	102	95
890-2467-11	BH06	98	97
890-2467-12	BH06A	100	101
LCS 880-28488/1-A	Lab Control Sample	95	100
LCSD 880-28488/2-A	Lab Control Sample Dup	95	95
MB 880-28488/5-A	Method Blank	98	98

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)
890-2467-1	BH01	117	103
890-2467-1 MS	BH01	124	99
890-2467-1 MSD	BH01	109	85
890-2467-2	BH01A	136 S1+	122
890-2467-3	BH02	121	109
890-2467-4	BH02A	138 S1+	123
890-2467-5	BH03	136 S1+	121
890-2467-6	BH03A	137 S1+	122
890-2467-7	BH014	126	113
890-2467-8	BH04A	114	103
890-2467-9	BH05	117	105
890-2467-10	BH05A	134 S1+	120
890-2467-11	BH06	113	100
890-2467-12	BH06A	112	101
LCS 880-28506/2-A	Lab Control Sample	141 S1+	121
LCSD 880-28506/3-A	Lab Control Sample Dup	117	101
MB 880-28506/1-A	Method Blank	107	98

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28488/5-A
Matrix: Solid
Analysis Batch: 28474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28488

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 18:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 18:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 18:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/27/22 15:29	06/27/22 18:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/27/22 15:29	06/27/22 18:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/27/22 15:29	06/27/22 18:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:29*	*06/27/22 18:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/27/22 15:29*	*06/27/22 18:44*	*1*

Lab Sample ID: LCS 880-28488/1-A
Matrix: Solid
Analysis Batch: 28474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28488

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08418		mg/Kg		84	70 - 130		
Toluene			0.100	0.08947		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.07789		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene			0.200	0.1580		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.09059		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-28488/2-A
Matrix: Solid
Analysis Batch: 28474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28488

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09569		mg/Kg		96	70 - 130	13	35
Toluene			0.100	0.1061		mg/Kg		106	70 - 130	17	35
Ethylbenzene			0.100	0.09264		mg/Kg		93	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.1879		mg/Kg		94	70 - 130	17	35
o-Xylene			0.100	0.1071		mg/Kg		107	70 - 130	17	35

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

Lab Sample ID: 880-16266-A-39-E MS
Matrix: Solid
Analysis Batch: 28474

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.100	0.07148		mg/Kg		71	70 - 130		
Toluene	<0.00200	U F1	0.100	0.07846		mg/Kg		78	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

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

Lab Sample ID: 880-16266-A-39-E MS
Matrix: Solid
Analysis Batch: 28474

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.05284	F1	mg/Kg		51	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1071	F1	mg/Kg		52	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.05856	F1	mg/Kg		58	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-16266-A-39-F MSD
Matrix: Solid
Analysis Batch: 28474

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.06075	F1	mg/Kg		61	70 - 130	16	35
Toluene	<0.00200	U F1	0.0998	0.06260	F1	mg/Kg		63	70 - 130	22	35
Ethylbenzene	<0.00200	U F1	0.0998	0.05293	F1	mg/Kg		52	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.09676	F1	mg/Kg		47	70 - 130	10	35
o-Xylene	<0.00200	U F1	0.0998	0.05253	F1	mg/Kg		52	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-28506/1-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28506

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		06/28/22 08:51	06/28/22 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 13:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/28/22 08:51*	*06/28/22 13:19*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/28/22 08:51*	*06/28/22 13:19*	*1*

Lab Sample ID: LCS 880-28506/2-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28506

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1169		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1179		mg/Kg		118	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

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

Lab Sample ID: LCS 880-28506/2-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28506

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	141	S1+	70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-28506/3-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28506

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	950.3	*1	mg/Kg		95	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	982.3		mg/Kg		98	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-2467-1 MS
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 28506

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 *1 F1	996	1346	F1	mg/Kg		135	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1044		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-2467-1 MSD
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 28506

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 *1 F1	996	1171		mg/Kg		118	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	952.5		mg/Kg		94	70 - 130	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28455/1-A
Matrix: Solid
Analysis Batch: 28581

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			06/28/22 15:26	1

Lab Sample ID: LCS 880-28455/2-A
Matrix: Solid
Analysis Batch: 28581

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.2		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-28455/3-A
Matrix: Solid
Analysis Batch: 28581

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	267.3		mg/Kg		107	90 - 110	2	20

Lab Sample ID: 890-2467-4 MS
Matrix: Solid
Analysis Batch: 28581

Client Sample ID: BH02A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	166		248	417.1		mg/Kg		102	90 - 110		

Lab Sample ID: 890-2467-4 MSD
Matrix: Solid
Analysis Batch: 28581

Client Sample ID: BH02A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	166		248	416.2		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

GC VOA

Analysis Batch: 28474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Total/NA	Solid	8021B	28488
890-2467-2	BH01A	Total/NA	Solid	8021B	28488
890-2467-3	BH02	Total/NA	Solid	8021B	28488
890-2467-4	BH02A	Total/NA	Solid	8021B	28488
890-2467-5	BH03	Total/NA	Solid	8021B	28488
890-2467-6	BH03A	Total/NA	Solid	8021B	28488
890-2467-7	BH014	Total/NA	Solid	8021B	28488
890-2467-8	BH04A	Total/NA	Solid	8021B	28488
890-2467-9	BH05	Total/NA	Solid	8021B	28488
890-2467-10	BH05A	Total/NA	Solid	8021B	28488
890-2467-11	BH06	Total/NA	Solid	8021B	28488
890-2467-12	BH06A	Total/NA	Solid	8021B	28488
MB 880-28488/5-A	Method Blank	Total/NA	Solid	8021B	28488
LCS 880-28488/1-A	Lab Control Sample	Total/NA	Solid	8021B	28488
LCSD 880-28488/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28488
880-16266-A-39-E MS	Matrix Spike	Total/NA	Solid	8021B	28488
880-16266-A-39-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28488

Prep Batch: 28488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Total/NA	Solid	5035	
890-2467-2	BH01A	Total/NA	Solid	5035	
890-2467-3	BH02	Total/NA	Solid	5035	
890-2467-4	BH02A	Total/NA	Solid	5035	
890-2467-5	BH03	Total/NA	Solid	5035	
890-2467-6	BH03A	Total/NA	Solid	5035	
890-2467-7	BH014	Total/NA	Solid	5035	
890-2467-8	BH04A	Total/NA	Solid	5035	
890-2467-9	BH05	Total/NA	Solid	5035	
890-2467-10	BH05A	Total/NA	Solid	5035	
890-2467-11	BH06	Total/NA	Solid	5035	
890-2467-12	BH06A	Total/NA	Solid	5035	
MB 880-28488/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28488/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28488/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16266-A-39-E MS	Matrix Spike	Total/NA	Solid	5035	
880-16266-A-39-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Total/NA	Solid	Total BTEX	
890-2467-2	BH01A	Total/NA	Solid	Total BTEX	
890-2467-3	BH02	Total/NA	Solid	Total BTEX	
890-2467-4	BH02A	Total/NA	Solid	Total BTEX	
890-2467-5	BH03	Total/NA	Solid	Total BTEX	
890-2467-6	BH03A	Total/NA	Solid	Total BTEX	
890-2467-7	BH014	Total/NA	Solid	Total BTEX	
890-2467-8	BH04A	Total/NA	Solid	Total BTEX	
890-2467-9	BH05	Total/NA	Solid	Total BTEX	
890-2467-10	BH05A	Total/NA	Solid	Total BTEX	
890-2467-11	BH06	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

GC VOA (Continued)

Analysis Batch: 28509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-12	BH06A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 28506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Total/NA	Solid	8015NM Prep	
890-2467-2	BH01A	Total/NA	Solid	8015NM Prep	
890-2467-3	BH02	Total/NA	Solid	8015NM Prep	
890-2467-4	BH02A	Total/NA	Solid	8015NM Prep	
890-2467-5	BH03	Total/NA	Solid	8015NM Prep	
890-2467-6	BH03A	Total/NA	Solid	8015NM Prep	
890-2467-7	BH014	Total/NA	Solid	8015NM Prep	
890-2467-8	BH04A	Total/NA	Solid	8015NM Prep	
890-2467-9	BH05	Total/NA	Solid	8015NM Prep	
890-2467-10	BH05A	Total/NA	Solid	8015NM Prep	
890-2467-11	BH06	Total/NA	Solid	8015NM Prep	
890-2467-12	BH06A	Total/NA	Solid	8015NM Prep	
MB 880-28506/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28506/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2467-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2467-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Total/NA	Solid	8015B NM	28506
890-2467-2	BH01A	Total/NA	Solid	8015B NM	28506
890-2467-3	BH02	Total/NA	Solid	8015B NM	28506
890-2467-4	BH02A	Total/NA	Solid	8015B NM	28506
890-2467-5	BH03	Total/NA	Solid	8015B NM	28506
890-2467-6	BH03A	Total/NA	Solid	8015B NM	28506
890-2467-7	BH014	Total/NA	Solid	8015B NM	28506
890-2467-8	BH04A	Total/NA	Solid	8015B NM	28506
890-2467-9	BH05	Total/NA	Solid	8015B NM	28506
890-2467-10	BH05A	Total/NA	Solid	8015B NM	28506
890-2467-11	BH06	Total/NA	Solid	8015B NM	28506
890-2467-12	BH06A	Total/NA	Solid	8015B NM	28506
MB 880-28506/1-A	Method Blank	Total/NA	Solid	8015B NM	28506
LCS 880-28506/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28506
LCSD 880-28506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28506
890-2467-1 MS	BH01	Total/NA	Solid	8015B NM	28506
890-2467-1 MSD	BH01	Total/NA	Solid	8015B NM	28506

Analysis Batch: 28634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Total/NA	Solid	8015 NM	
890-2467-2	BH01A	Total/NA	Solid	8015 NM	
890-2467-3	BH02	Total/NA	Solid	8015 NM	
890-2467-4	BH02A	Total/NA	Solid	8015 NM	
890-2467-5	BH03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

GC Semi VOA (Continued)

Analysis Batch: 28634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-6	BH03A	Total/NA	Solid	8015 NM	
890-2467-7	BH014	Total/NA	Solid	8015 NM	
890-2467-8	BH04A	Total/NA	Solid	8015 NM	
890-2467-9	BH05	Total/NA	Solid	8015 NM	
890-2467-10	BH05A	Total/NA	Solid	8015 NM	
890-2467-11	BH06	Total/NA	Solid	8015 NM	
890-2467-12	BH06A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Soluble	Solid	DI Leach	
890-2467-2	BH01A	Soluble	Solid	DI Leach	
890-2467-3	BH02	Soluble	Solid	DI Leach	
890-2467-4	BH02A	Soluble	Solid	DI Leach	
890-2467-5	BH03	Soluble	Solid	DI Leach	
890-2467-6	BH03A	Soluble	Solid	DI Leach	
890-2467-7	BH014	Soluble	Solid	DI Leach	
890-2467-8	BH04A	Soluble	Solid	DI Leach	
890-2467-9	BH05	Soluble	Solid	DI Leach	
890-2467-10	BH05A	Soluble	Solid	DI Leach	
890-2467-11	BH06	Soluble	Solid	DI Leach	
890-2467-12	BH06A	Soluble	Solid	DI Leach	
MB 880-28455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2467-4 MS	BH02A	Soluble	Solid	DI Leach	
890-2467-4 MSD	BH02A	Soluble	Solid	DI Leach	

Analysis Batch: 28581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2467-1	BH01	Soluble	Solid	300.0	28455
890-2467-2	BH01A	Soluble	Solid	300.0	28455
890-2467-3	BH02	Soluble	Solid	300.0	28455
890-2467-4	BH02A	Soluble	Solid	300.0	28455
890-2467-5	BH03	Soluble	Solid	300.0	28455
890-2467-6	BH03A	Soluble	Solid	300.0	28455
890-2467-7	BH014	Soluble	Solid	300.0	28455
890-2467-8	BH04A	Soluble	Solid	300.0	28455
890-2467-9	BH05	Soluble	Solid	300.0	28455
890-2467-10	BH05A	Soluble	Solid	300.0	28455
890-2467-11	BH06	Soluble	Solid	300.0	28455
890-2467-12	BH06A	Soluble	Solid	300.0	28455
MB 880-28455/1-A	Method Blank	Soluble	Solid	300.0	28455
LCS 880-28455/2-A	Lab Control Sample	Soluble	Solid	300.0	28455
LCSD 880-28455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28455
890-2467-4 MS	BH02A	Soluble	Solid	300.0	28455
890-2467-4 MSD	BH02A	Soluble	Solid	300.0	28455

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH01
Date Collected: 06/24/22 09:20
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-1
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/27/22 21:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 14:22	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		5			28581	06/28/22 17:35	SC	XEN MID

Client Sample ID: BH01A
Date Collected: 06/24/22 10:10
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-2
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/27/22 22:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 15:26	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 17:44	SC	XEN MID

Client Sample ID: BH02
Date Collected: 06/24/22 10:30
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-3
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 00:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 15:48	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 17:54	SC	XEN MID

Client Sample ID: BH02A
Date Collected: 06/24/22 11:00
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 00:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH02A
Date Collected: 06/24/22 11:00
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-4
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			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 16:10	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 18:03	SC	XEN MID

Client Sample ID: BH03
Date Collected: 06/24/22 11:20
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-5
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 00:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 16:32	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 18:30	SC	XEN MID

Client Sample ID: BH03A
Date Collected: 06/24/22 11:30
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-6
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 01:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 16:54	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 18:40	SC	XEN MID

Client Sample ID: BH014
Date Collected: 06/24/22 11:45
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-7
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 01:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 17:16	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH014
Date Collected: 06/24/22 11:45
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		5			28581	06/28/22 19:35	SC	XEN MID

Client Sample ID: BH04A
Date Collected: 06/24/22 11:55
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-8
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 01:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 17:37	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 19:44	SC	XEN MID

Client Sample ID: BH05
Date Collected: 06/24/22 12:25
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-9
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 02:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 17:59	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 19:53	SC	XEN MID

Client Sample ID: BH05A
Date Collected: 06/24/22 12:30
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-10
Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 02:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 18:20	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 20:03	SC	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Client Sample ID: BH06

Date Collected: 06/24/22 12:45
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-11

Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 02:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 19:02	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 20:12	SC	XEN MID

Client Sample ID: BH06A

Date Collected: 06/24/22 12:55
Date Received: 06/27/22 09:09

Lab Sample ID: 890-2467-12

Matrix: Solid

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	28488	06/27/22 15:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28474	06/28/22 03:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28509	06/28/22 09:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28634	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 19:24	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28455	06/27/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			28581	06/28/22 20:21	SC	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: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

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: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

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: TOUCH OF GREY STATE COM #1

Job ID: 890-2467-1
SDG: 09C2041001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2467-1	BH01	Solid	06/24/22 09:20	06/27/22 09:09	0.5
890-2467-2	BH01A	Solid	06/24/22 10:10	06/27/22 09:09	3
890-2467-3	BH02	Solid	06/24/22 10:30	06/27/22 09:09	3
890-2467-4	BH02A	Solid	06/24/22 11:00	06/27/22 09:09	4
890-2467-5	BH03	Solid	06/24/22 11:20	06/27/22 09:09	0.5
890-2467-6	BH03A	Solid	06/24/22 11:30	06/27/22 09:09	4
890-2467-7	BH014	Solid	06/24/22 11:45	06/27/22 09:09	0.5
890-2467-8	BH04A	Solid	06/24/22 11:55	06/27/22 09:09	4
890-2467-9	BH05	Solid	06/24/22 12:25	06/27/22 09:09	2
890-2467-10	BH05A	Solid	06/24/22 12:30	06/27/22 09:09	4
890-2467-11	BH06	Solid	06/24/22 12:45	06/27/22 09:09	0.5
890-2467-12	BH06A	Solid	06/24/22 12:55	06/27/22 09:09	4

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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: _____

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Project Manager:	Dean Moir	Bill to: (if different)	Ensolum
Company Name:	Ensolum	Company Name:	Armstrong Energy
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	303-887-2946	Email:	dmoir@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Tomah of Grey State Com #1	Turn Around	
Project Number:	09C2041001	☐ Routine ☑ Rush	
Project Location:	33.7933, -103.4600	Due Date:	2-day
Sampler's Name:	Kyle Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TVM.007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-2467 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	Sample Comments
BH01	S	6/24/22	0920	0.5'				X	X	X	
BH01A			1010	3'							
BH02			1030	3'							
BH02A			1100	4'							
BH03			1120	0.5'							
BH03A			1130	4'							
BH04			1145	0.5'							
BH04A			1155	4'							
BH05			1225	2'							
BH05A	V	V	1230	4'				V	V	V	

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 Tl 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 Tl 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
1			6.27.22 0909			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 9/22/2022 3:20:10 PM

Released to Imaging: 9/27/2022 10:39:07 AM

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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: _____

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Project Manager:	Dean Moir	Bill to: (if different)	Ensolum
Company Name:		Company Name:	Armstrong Energy
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Tank of Grey Shelton #1	Turn Around	
Project Number:		☐ Routine ☑ Rush	
Project Location:		Due Date:	2-day
Sampler's Name:	Kase Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	Sample Comments
BH06	S	6/24/22	1245	0.5'				X	X	X	
BH06A	S	6/24/22	1255	4'				X	X	X	

KP

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 Tl 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 Tl 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
1		6-27-22 0909	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 9/22/2022 3:20:10 PM

Released to Imaging: 9/27/2022 10:39:07 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2467-1
SDG Number: 09C2041001

Login Number: 2467
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: 890-2467-1
SDG Number: 09C2041001

Login Number: 2467
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/27/22 05:47 PM

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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2551-1
Laboratory Sample Delivery Group: 33.7933.103.4600
Client Project/Site: TOUCH OF GREY STATE COM #1

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

Attn: Daniel Moir

JKramer

Authorized for release by:
7/15/2022 9:33:19 AM

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

LINKS

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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: TOUCH OF GREY STATE COM #1

Laboratory Job ID: 890-2551-1
SDG: 33.7933.103.4600

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2551-1
Project/Site: TOUCH OF GREY STATE COM #1 SDG: 33.7933.103.4600

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance 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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Job ID: 890-2551-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2551-1

Receipt
The samples were received on 7/12/2022 4:47 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 5.8°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-29709 and analytical batch 880-29747 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-29709 and analytical batch 880-29747 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: Surrogate recovery for the following samples were outside control limits: (890-2547-A-41-C MS) and (890-2547-A-41-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29673 and analytical batch 880-29694 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 8015MOD_NM: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-29771 and analytical batch 880-29692 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-16938-A-1-E MS) and (880-16938-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29751 and analytical batch 880-29768 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision 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: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS01

Lab Sample ID: 890-2551-1
Matrix: Solid
Date Collected: 07/11/22 09:40
Date Received: 07/12/22 16:47
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		07/14/22 09:40	07/14/22 21:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 21:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 21:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 09:40	07/14/22 21:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 21:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 09:40	07/14/22 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/14/22 09:40*	*07/14/22 21:45*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/22 09:40*	*07/14/22 21:45*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 14:00	07/14/22 17:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 14:00	07/14/22 17:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 14:00	07/14/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/14/22 14:00*	*07/14/22 17:43*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/14/22 14:00*	*07/14/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**418**		4.98		mg/Kg			07/15/22 03:01	1

Client Sample ID: FS02

Lab Sample ID: 890-2551-2
Matrix: Solid
Date Collected: 07/11/22 09:45
Date Received: 07/12/22 16:47
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:40	07/14/22 22:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:40	07/14/22 22:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:40	07/14/22 22:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 09:40	07/14/22 22:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:40	07/14/22 22:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 09:40	07/14/22 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/14/22 09:40*	*07/14/22 22:05*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS02

Lab Sample ID: 890-2551-2
Matrix: Solid
Date Collected: 07/11/22 09:45
Date Received: 07/12/22 16:47
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/22 09:40*	*07/14/22 22:05*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 14:00	07/14/22 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/22 14:00	07/14/22 18:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/22 14:00	07/14/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*07/14/22 14:00*	*07/14/22 18:05*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/14/22 14:00*	*07/14/22 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.5**		5.00	mg/Kg			07/15/22 03:29	1

Client Sample ID: FS03

Lab Sample ID: 890-2551-3
Matrix: Solid
Date Collected: 07/11/22 09:50
Date Received: 07/12/22 16:47
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		07/14/22 09:40	07/14/22 22:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 09:40	07/14/22 22:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 09:40	07/14/22 22:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/22 09:40	07/14/22 22:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 09:40	07/14/22 22:26	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/14/22 09:40	07/14/22 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/14/22 09:40*	*07/14/22 22:26*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/14/22 09:40*	*07/14/22 22:26*	*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			07/15/22 10:01	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			07/15/22 09:28	1

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Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS03

Lab Sample ID: 890-2551-3
Matrix: Solid
Date Collected: 07/11/22 09:50
Date Received: 07/12/22 16:47
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		07/14/22 14:00	07/14/22 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 14:00	07/14/22 18:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 14:00	07/14/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/14/22 14:00*	*07/14/22 18:26*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/14/22 14:00*	*07/14/22 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**159**		5.00		mg/Kg			07/15/22 03:38	1

Client Sample ID: FS04

Lab Sample ID: 890-2551-4
Matrix: Solid
Date Collected: 07/11/22 09:55
Date Received: 07/12/22 16:47
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		07/14/22 09:40	07/14/22 22:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 22:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 22:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:40	07/14/22 22:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 22:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:40	07/14/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/14/22 09:40*	*07/14/22 22:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/22 09:40*	*07/14/22 22:46*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 14:00	07/14/22 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 14:00	07/14/22 18:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 14:00	07/14/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/14/22 14:00*	*07/14/22 18:47*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/14/22 14:00*	*07/14/22 18:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS04

Lab Sample ID: 890-2551-4
Matrix: Solid
Date Collected: 07/11/22 09:55
Date Received: 07/12/22 16:47
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.5		4.95		mg/Kg			07/15/22 03:47	1

Client Sample ID: FS05

Lab Sample ID: 890-2551-5
Matrix: Solid
Date Collected: 07/11/22 10:00
Date Received: 07/12/22 16:47
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		07/14/22 09:40	07/14/22 23:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 23:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 23:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:40	07/14/22 23:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 23:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:40	07/14/22 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/22 09:40*	*07/14/22 23:07*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/22 09:40*	*07/14/22 23:07*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 14:00	07/14/22 19:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/22 14:00	07/14/22 19:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/22 14:00	07/14/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/14/22 14:00*	*07/14/22 19:08*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/14/22 14:00*	*07/14/22 19:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.8		5.05		mg/Kg			07/15/22 03:56	1

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS06

Lab Sample ID: 890-2551-6
Matrix: Solid
Date Collected: 07/11/22 10:05
Date Received: 07/12/22 16:47
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		07/14/22 09:32	07/15/22 02:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:32	07/15/22 02:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:32	07/15/22 02:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:32	07/15/22 02:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:32	07/15/22 02:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:32	07/15/22 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/14/22 09:32*	*07/15/22 02:44*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/22 09:32*	*07/15/22 02:44*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 16:33	07/15/22 01:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/22 16:33	07/15/22 01:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/22 16:33	07/15/22 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/14/22 16:33*	*07/15/22 01:31*	*1*
o-Terphenyl	*128*		*70 - 130*	*07/14/22 16:33*	*07/15/22 01:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.0**		4.97		mg/Kg			07/15/22 04:06	1

Client Sample ID: FS07

Lab Sample ID: 890-2551-7
Matrix: Solid
Date Collected: 07/11/22 10:10
Date Received: 07/12/22 16:47
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		07/14/22 09:32	07/15/22 03:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:32	07/15/22 03:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:32	07/15/22 03:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:32	07/15/22 03:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:32	07/15/22 03:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:32	07/15/22 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/14/22 09:32*	*07/15/22 03:05*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS07

Lab Sample ID: 890-2551-7
Matrix: Solid
Date Collected: 07/11/22 10:10
Date Received: 07/12/22 16:47
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/14/22 09:32*	*07/15/22 03:05*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 16:33	07/15/22 01:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/22 16:33	07/15/22 01:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/22 16:33	07/15/22 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/22 16:33*	*07/15/22 01:53*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/22 16:33*	*07/15/22 01:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.8**	**F1**	5.00	mg/Kg			07/15/22 04:15	1

Client Sample ID: FS08

Lab Sample ID: 890-2551-8
Matrix: Solid
Date Collected: 07/11/22 10:15
Date Received: 07/12/22 16:47
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199	mg/Kg		07/14/22 09:32	07/15/22 03:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/22 09:32	07/15/22 03:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/14/22 09:32	07/15/22 03:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/22 09:32	07/15/22 03:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/14/22 09:32	07/15/22 03:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/22 09:32	07/15/22 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/14/22 09:32*	*07/15/22 03:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/14/22 09:32*	*07/15/22 03:25*	*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			07/15/22 10:01	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			07/15/22 09:28	1

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Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS08

Lab Sample ID: 890-2551-8
Matrix: Solid
Date Collected: 07/11/22 10:15
Date Received: 07/12/22 16:47
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		07/14/22 16:33	07/15/22 02:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/15/22 02:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/15/22 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/22 16:33*	*07/15/22 02:14*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/22 16:33*	*07/15/22 02:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		4.98		mg/Kg			07/15/22 04:42	1

Client Sample ID: FS09

Lab Sample ID: 890-2551-9
Matrix: Solid
Date Collected: 07/11/22 10:20
Date Received: 07/12/22 16:47
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		07/14/22 09:32	07/15/22 03:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 03:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 03:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:32	07/15/22 03:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 03:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:32	07/15/22 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/14/22 09:32*	*07/15/22 03:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/14/22 09:32*	*07/15/22 03:46*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 16:33	07/15/22 02:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/15/22 02:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/15/22 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/14/22 16:33*	*07/15/22 02:35*	*1*
o-Terphenyl	*130*		*70 - 130*	*07/14/22 16:33*	*07/15/22 02:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS09

Lab Sample ID: 890-2551-9
Matrix: Solid
Date Collected: 07/11/22 10:20
Date Received: 07/12/22 16:47
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.1		5.00		mg/Kg			07/15/22 04:52	1

Client Sample ID: SW01

Lab Sample ID: 890-2551-10
Matrix: Solid
Date Collected: 07/11/22 15:00
Date Received: 07/12/22 16:47
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		07/14/22 09:32	07/15/22 04:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:32	07/15/22 04:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:32	07/15/22 04:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/22 09:32	07/15/22 04:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:32	07/15/22 04:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/22 09:32	07/15/22 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/14/22 09:32*	*07/15/22 04:06*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/14/22 09:32*	*07/15/22 04:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 16:33	07/15/22 02:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/22 16:33	07/15/22 02:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/22 16:33	07/15/22 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/22 16:33*	*07/15/22 02:57*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/14/22 16:33*	*07/15/22 02:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			07/15/22 05:19	1

Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: SW02

Lab Sample ID: 890-2551-11
Matrix: Solid
Date Collected: 07/11/22 15:05
Date Received: 07/12/22 16:47
Sample Depth: 0 - 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		07/14/22 09:32	07/15/22 04:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:32	07/15/22 04:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:32	07/15/22 04:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:32	07/15/22 04:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:32	07/15/22 04:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:32	07/15/22 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/14/22 09:32*	*07/15/22 04:26*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/22 09:32*	*07/15/22 04:26*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 16:33	07/15/22 03:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/15/22 03:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/15/22 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/14/22 16:33*	*07/15/22 03:18*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/14/22 16:33*	*07/15/22 03:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.0**		4.95		mg/Kg			07/15/22 05:28	1

Client Sample ID: SW03

Lab Sample ID: 890-2551-12
Matrix: Solid
Date Collected: 07/11/22 15:10
Date Received: 07/12/22 16:47
Sample Depth: 0 - 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		07/14/22 09:32	07/15/22 04:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 04:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 04:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 09:32	07/15/22 04:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 04:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 09:32	07/15/22 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/22 09:32*	*07/15/22 04:47*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: SW03
Date Collected: 07/11/22 15:10
Date Received: 07/12/22 16:47
Sample Depth: 0 - 4

Lab Sample ID: 890-2551-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/22 09:32*	*07/15/22 04:47*	*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			07/15/22 10:01	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			07/15/22 09:28	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		07/14/22 16:33	07/15/22 03:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/22 16:33	07/15/22 03:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/22 16:33	07/15/22 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/14/22 16:33*	*07/15/22 03:39*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/14/22 16:33*	*07/15/22 03:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		4.95		mg/Kg			07/15/22 05:38	1

Surrogate Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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)
890-2551-1	FS01	112	100
890-2551-2	FS02	108	103
890-2551-3	FS03	103	99
890-2551-4	FS04	106	100
890-2551-5	FS05	102	98
890-2551-6	FS06	106	100
890-2551-6 MS	FS06	102	96
890-2551-6 MSD	FS06	108	91
890-2551-7	FS07	97	84
890-2551-8	FS08	107	96
890-2551-9	FS09	104	99
890-2551-10	SW01	96	99
890-2551-11	SW02	118	97
890-2551-12	SW03	110	100
LCS 880-29709/1-A	Lab Control Sample	106	94
LCS 880-29718/1-A	Lab Control Sample	104	97
LCSD 880-29709/2-A	Lab Control Sample Dup	107	97
LCSD 880-29718/2-A	Lab Control Sample Dup	99	101
MB 880-29709/5-A	Method Blank	98	98
MB 880-29718/5-A	Method Blank	96	98

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)
880-16938-A-1-E MS	Matrix Spike	185 S1+	457 S1+
880-16938-A-1-F MSD	Matrix Spike Duplicate	173 S1+	439 S1+
890-2547-A-41-C MS	Matrix Spike	71	68 S1-
890-2547-A-41-D MSD	Matrix Spike Duplicate	71	67 S1-
890-2551-1	FS01	88	97
890-2551-2	FS02	87	97
890-2551-3	FS03	91	94
890-2551-4	FS04	91	99
890-2551-5	FS05	102	113
890-2551-6	FS06	115	128
890-2551-7	FS07	98	111
890-2551-8	FS08	94	107
890-2551-9	FS09	118	130
890-2551-10	SW01	107	115
890-2551-11	SW02	88	102
890-2551-12	SW03	91	102
LCS 880-29673/2-A	Lab Control Sample	109	114
LCS 880-29771/2-A	Lab Control Sample	98	115
LCSD 880-29673/3-A	Lab Control Sample Dup	113	124

Surrogate Summary

Client: Ensolum Job ID: 890-2551-1
Project/Site: TOUCH OF GREY STATE COM #1 SDG: 33.7933.103.4600

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCSD 880-29771/3-A	Lab Control Sample Dup	89	104								
MB 880-29673/1-A	Method Blank	81	91								
MB 880-29771/1-A	Method Blank	100	119								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29709/5-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29709

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 02:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 02:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 02:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:32	07/15/22 02:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:32	07/15/22 02:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:32	07/15/22 02:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/14/22 09:32*	*07/15/22 02:15*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/22 09:32*	*07/15/22 02:15*	*1*

Lab Sample ID: LCS 880-29709/1-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29709

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.06857	*-	mg/Kg		69	70 - 130		
Toluene			0.100	0.07143		mg/Kg		71	70 - 130		
Ethylbenzene			0.100	0.07419		mg/Kg		74	70 - 130		
m-Xylene & p-Xylene			0.200	0.1581		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.08525		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-29709/2-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29709

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08850		mg/Kg		89	70 - 130	25	35
Toluene			0.100	0.08365		mg/Kg		84	70 - 130	16	35
Ethylbenzene			0.100	0.08243		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1724		mg/Kg		86	70 - 130	9	35
o-Xylene			0.100	0.09250		mg/Kg		93	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2551-6 MS
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: FS06
Prep Type: Total/NA
Prep Batch: 29709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U *-	0.101	0.08720		mg/Kg		86	70 - 130		
Toluene	<0.00201	U	0.101	0.08714		mg/Kg		86	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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

Lab Sample ID: 890-2551-6 MS
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: FS06
Prep Type: Total/NA
Prep Batch: 29709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.08720		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1842		mg/Kg		91	70 - 130
o-Xylene	<0.00201	U	0.101	0.09973		mg/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2551-6 MSD
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: FS06
Prep Type: Total/NA
Prep Batch: 29709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *-	0.100	0.07395		mg/Kg		74	70 - 130	16	35
Toluene	<0.00201	U	0.100	0.07730		mg/Kg		77	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.100	0.07699		mg/Kg		77	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1636		mg/Kg		82	70 - 130	12	35
o-Xylene	<0.00201	U	0.100	0.09100		mg/Kg		91	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-29718/5-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29718

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:40	07/14/22 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/14/22 09:40*	*07/14/22 14:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/22 09:40*	*07/14/22 14:39*	*1*

Lab Sample ID: LCS 880-29718/1-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09627		mg/Kg		96	70 - 130
Toluene	0.100	0.09427		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09312		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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

Lab Sample ID: LCS 880-29718/1-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29718

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1030		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-29718/2-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29718

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09699		mg/Kg		97	70 - 130	1	35
Toluene			0.100	0.08826		mg/Kg		88	70 - 130	7	35
Ethylbenzene			0.100	0.08683		mg/Kg		87	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1827		mg/Kg		91	70 - 130	6	35
o-Xylene			0.100	0.09774		mg/Kg		98	70 - 130	5	35

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

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

Lab Sample ID: MB 880-29673/1-A
Matrix: Solid
Analysis Batch: 29694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29673

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		07/13/22 15:09	07/14/22 09:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/13/22 15:09	07/14/22 09:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/13/22 15:09	07/14/22 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/13/22 15:09*	*07/14/22 09:52*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/13/22 15:09*	*07/14/22 09:52*	*1*

Lab Sample ID: LCS 880-29673/2-A
Matrix: Solid
Analysis Batch: 29694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29673

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	883.9		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	900.1		mg/Kg		90	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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

Lab Sample ID: LCS 880-29673/2-A
Matrix: Solid
Analysis Batch: 29694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29673

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-29673/3-A
Matrix: Solid
Analysis Batch: 29694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	885.0		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	953.8		mg/Kg		95	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-2547-A-41-C MS
Matrix: Solid
Analysis Batch: 29694

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	766.7		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	635.5	F1	mg/Kg		61	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 890-2547-A-41-D MSD
Matrix: Solid
Analysis Batch: 29694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29673

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	<50.0	U	999	766.4		mg/Kg		75	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	636.2	F1	mg/Kg		61	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	67	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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

Lab Sample ID: MB 880-29771/1-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29771

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		07/14/22 16:33	07/14/22 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/22 16:33	07/14/22 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/14/22 16:33*	*07/14/22 19:51*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/22 16:33*	*07/14/22 19:51*	*1*

Lab Sample ID: LCS 880-29771/2-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29771

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	906.0		mg/Kg		91	70 - 130		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane			*98*		*70 - 130*
o-Terphenyl			*115*		*70 - 130*

Lab Sample ID: LCSD 880-29771/3-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	936.7		mg/Kg		94	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	858.2		mg/Kg		86	70 - 130	5	20

Surrogate			*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane			*89*		*70 - 130*
o-Terphenyl			*104*		*70 - 130*

Lab Sample ID: 880-16938-A-1-E MS
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29771

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*185*	*S1+*	*70 - 130*
o-Terphenyl	*457*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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

Lab Sample ID: 880-16938-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 29692 — **Prep Batch: 29771**

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	1990	F1	999	2431	F1	mg/Kg		44	70 - 130	NC	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*173*	*S1+*	*70 - 130*
o-Terphenyl	*439*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29751/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29768

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/22 01:38	1

Lab Sample ID: LCS 880-29751/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.0		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-29751/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29768

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.4		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-2551-7 MS — **Client Sample ID: FS07**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	24.8	F1	250	299.1		mg/Kg		110	90 - 110		

Lab Sample ID: 890-2551-7 MSD — **Client Sample ID: FS07**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24.8	F1	250	304.6	F1	mg/Kg		112	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

GC VOA

Prep Batch: 29709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-6	FS06	Total/NA	Solid	5035	
890-2551-7	FS07	Total/NA	Solid	5035	
890-2551-8	FS08	Total/NA	Solid	5035	
890-2551-9	FS09	Total/NA	Solid	5035	
890-2551-10	SW01	Total/NA	Solid	5035	
890-2551-11	SW02	Total/NA	Solid	5035	
890-2551-12	SW03	Total/NA	Solid	5035	
MB 880-29709/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29709/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29709/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2551-6 MS	FS06	Total/NA	Solid	5035	
890-2551-6 MSD	FS06	Total/NA	Solid	5035	

Prep Batch: 29718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Total/NA	Solid	5035	
890-2551-2	FS02	Total/NA	Solid	5035	
890-2551-3	FS03	Total/NA	Solid	5035	
890-2551-4	FS04	Total/NA	Solid	5035	
890-2551-5	FS05	Total/NA	Solid	5035	
MB 880-29718/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29718/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29718/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 29747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Total/NA	Solid	8021B	29718
890-2551-2	FS02	Total/NA	Solid	8021B	29718
890-2551-3	FS03	Total/NA	Solid	8021B	29718
890-2551-4	FS04	Total/NA	Solid	8021B	29718
890-2551-5	FS05	Total/NA	Solid	8021B	29718
890-2551-6	FS06	Total/NA	Solid	8021B	29709
890-2551-7	FS07	Total/NA	Solid	8021B	29709
890-2551-8	FS08	Total/NA	Solid	8021B	29709
890-2551-9	FS09	Total/NA	Solid	8021B	29709
890-2551-10	SW01	Total/NA	Solid	8021B	29709
890-2551-11	SW02	Total/NA	Solid	8021B	29709
890-2551-12	SW03	Total/NA	Solid	8021B	29709
MB 880-29709/5-A	Method Blank	Total/NA	Solid	8021B	29709
MB 880-29718/5-A	Method Blank	Total/NA	Solid	8021B	29718
LCS 880-29709/1-A	Lab Control Sample	Total/NA	Solid	8021B	29709
LCS 880-29718/1-A	Lab Control Sample	Total/NA	Solid	8021B	29718
LCSD 880-29709/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29709
LCSD 880-29718/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29718
890-2551-6 MS	FS06	Total/NA	Solid	8021B	29709
890-2551-6 MSD	FS06	Total/NA	Solid	8021B	29709

Analysis Batch: 29827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Total/NA	Solid	Total BTEX	
890-2551-2	FS02	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

GC VOA (Continued)

Analysis Batch: 29827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-3	FS03	Total/NA	Solid	Total BTEX	
890-2551-4	FS04	Total/NA	Solid	Total BTEX	
890-2551-5	FS05	Total/NA	Solid	Total BTEX	
890-2551-6	FS06	Total/NA	Solid	Total BTEX	
890-2551-7	FS07	Total/NA	Solid	Total BTEX	
890-2551-8	FS08	Total/NA	Solid	Total BTEX	
890-2551-9	FS09	Total/NA	Solid	Total BTEX	
890-2551-10	SW01	Total/NA	Solid	Total BTEX	
890-2551-11	SW02	Total/NA	Solid	Total BTEX	
890-2551-12	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Total/NA	Solid	8015NM Prep	
890-2551-2	FS02	Total/NA	Solid	8015NM Prep	
890-2551-3	FS03	Total/NA	Solid	8015NM Prep	
890-2551-4	FS04	Total/NA	Solid	8015NM Prep	
890-2551-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-29673/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29673/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29673/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2547-A-41-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2547-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-6	FS06	Total/NA	Solid	8015B NM	29771
890-2551-7	FS07	Total/NA	Solid	8015B NM	29771
890-2551-8	FS08	Total/NA	Solid	8015B NM	29771
890-2551-9	FS09	Total/NA	Solid	8015B NM	29771
890-2551-10	SW01	Total/NA	Solid	8015B NM	29771
890-2551-11	SW02	Total/NA	Solid	8015B NM	29771
890-2551-12	SW03	Total/NA	Solid	8015B NM	29771
MB 880-29771/1-A	Method Blank	Total/NA	Solid	8015B NM	29771
LCS 880-29771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29771
LCSD 880-29771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29771
880-16938-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	29771
880-16938-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29771

Analysis Batch: 29694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Total/NA	Solid	8015B NM	29673
890-2551-2	FS02	Total/NA	Solid	8015B NM	29673
890-2551-3	FS03	Total/NA	Solid	8015B NM	29673
890-2551-4	FS04	Total/NA	Solid	8015B NM	29673
890-2551-5	FS05	Total/NA	Solid	8015B NM	29673
MB 880-29673/1-A	Method Blank	Total/NA	Solid	8015B NM	29673
LCS 880-29673/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29673
LCSD 880-29673/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29673

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

GC Semi VOA (Continued)

Analysis Batch: 29694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2547-A-41-C MS	Matrix Spike	Total/NA	Solid	8015B NM	29673
890-2547-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29673

Prep Batch: 29771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-6	FS06	Total/NA	Solid	8015NM Prep	
890-2551-7	FS07	Total/NA	Solid	8015NM Prep	
890-2551-8	FS08	Total/NA	Solid	8015NM Prep	
890-2551-9	FS09	Total/NA	Solid	8015NM Prep	
890-2551-10	SW01	Total/NA	Solid	8015NM Prep	
890-2551-11	SW02	Total/NA	Solid	8015NM Prep	
890-2551-12	SW03	Total/NA	Solid	8015NM Prep	
MB 880-29771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16938-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16938-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Total/NA	Solid	8015 NM	
890-2551-2	FS02	Total/NA	Solid	8015 NM	
890-2551-3	FS03	Total/NA	Solid	8015 NM	
890-2551-4	FS04	Total/NA	Solid	8015 NM	
890-2551-5	FS05	Total/NA	Solid	8015 NM	
890-2551-6	FS06	Total/NA	Solid	8015 NM	
890-2551-7	FS07	Total/NA	Solid	8015 NM	
890-2551-8	FS08	Total/NA	Solid	8015 NM	
890-2551-9	FS09	Total/NA	Solid	8015 NM	
890-2551-10	SW01	Total/NA	Solid	8015 NM	
890-2551-11	SW02	Total/NA	Solid	8015 NM	
890-2551-12	SW03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Soluble	Solid	DI Leach	
890-2551-2	FS02	Soluble	Solid	DI Leach	
890-2551-3	FS03	Soluble	Solid	DI Leach	
890-2551-4	FS04	Soluble	Solid	DI Leach	
890-2551-5	FS05	Soluble	Solid	DI Leach	
890-2551-6	FS06	Soluble	Solid	DI Leach	
890-2551-7	FS07	Soluble	Solid	DI Leach	
890-2551-8	FS08	Soluble	Solid	DI Leach	
890-2551-9	FS09	Soluble	Solid	DI Leach	
890-2551-10	SW01	Soluble	Solid	DI Leach	
890-2551-11	SW02	Soluble	Solid	DI Leach	
890-2551-12	SW03	Soluble	Solid	DI Leach	
MB 880-29751/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29751/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

HPLC/IC (Continued)

Leach Batch: 29751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-29751/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2551-7 MS	FS07	Soluble	Solid	DI Leach	
890-2551-7 MSD	FS07	Soluble	Solid	DI Leach	

Analysis Batch: 29768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2551-1	FS01	Soluble	Solid	300.0	29751
890-2551-2	FS02	Soluble	Solid	300.0	29751
890-2551-3	FS03	Soluble	Solid	300.0	29751
890-2551-4	FS04	Soluble	Solid	300.0	29751
890-2551-5	FS05	Soluble	Solid	300.0	29751
890-2551-6	FS06	Soluble	Solid	300.0	29751
890-2551-7	FS07	Soluble	Solid	300.0	29751
890-2551-8	FS08	Soluble	Solid	300.0	29751
890-2551-9	FS09	Soluble	Solid	300.0	29751
890-2551-10	SW01	Soluble	Solid	300.0	29751
890-2551-11	SW02	Soluble	Solid	300.0	29751
890-2551-12	SW03	Soluble	Solid	300.0	29751
MB 880-29751/1-A	Method Blank	Soluble	Solid	300.0	29751
LCS 880-29751/2-A	Lab Control Sample	Soluble	Solid	300.0	29751
LCSD 880-29751/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29751
890-2551-7 MS	FS07	Soluble	Solid	300.0	29751
890-2551-7 MSD	FS07	Soluble	Solid	300.0	29751

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS01

Date Collected: 07/11/22 09:40
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-1

Matrix: Solid

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	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 21:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29673	07/14/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29694	07/14/22 17:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 03:01	CH	XEN MID

Client Sample ID: FS02

Date Collected: 07/11/22 09:45
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-2

Matrix: Solid

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	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 22:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29673	07/14/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29694	07/14/22 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 03:29	CH	XEN MID

Client Sample ID: FS03

Date Collected: 07/11/22 09:50
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-3

Matrix: Solid

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	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 22:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29673	07/14/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29694	07/14/22 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 03:38	CH	XEN MID

Client Sample ID: FS04

Date Collected: 07/11/22 09:55
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 22:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS04

Date Collected: 07/11/22 09:55
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-4

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			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29673	07/14/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29694	07/14/22 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 03:47	CH	XEN MID

Client Sample ID: FS05

Date Collected: 07/11/22 10:00
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-5

Matrix: Solid

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	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 23:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29673	07/14/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29694	07/14/22 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 03:56	CH	XEN MID

Client Sample ID: FS06

Date Collected: 07/11/22 10:05
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-6

Matrix: Solid

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	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 02:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 01:31	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 04:06	CH	XEN MID

Client Sample ID: FS07

Date Collected: 07/11/22 10:10
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-7

Matrix: Solid

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	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 03:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 01:53	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: FS07
Date Collected: 07/11/22 10:10
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-7
Matrix: Solid

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 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 04:15	CH	XEN MID

Client Sample ID: FS08
Date Collected: 07/11/22 10:15
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-8
Matrix: Solid

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	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 03:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 02:14	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 04:42	CH	XEN MID

Client Sample ID: FS09
Date Collected: 07/11/22 10:20
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-9
Matrix: Solid

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	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 02:35	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 04:52	CH	XEN MID

Client Sample ID: SW01
Date Collected: 07/11/22 15:00
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 04:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 02:57	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 05:19	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Client Sample ID: SW02

Date Collected: 07/11/22 15:05
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-11

Matrix: Solid

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	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 04:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 03:18	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 05:28	CH	XEN MID

Client Sample ID: SW03

Date Collected: 07/11/22 15:10
Date Received: 07/12/22 16:47

Lab Sample ID: 890-2551-12

Matrix: Solid

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	29709	07/14/22 09:32	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/15/22 04:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29827	07/15/22 10:01	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29820	07/15/22 09:28	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29771	07/14/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/15/22 03:39	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29751	07/14/22 12:23	SMC	XEN MID
Soluble	Analysis	300.0		1			29768	07/15/22 05:38	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
Job ID: 890-2551-1
Project/Site: TOUCH OF GREY STATE COM #1
SDG: 33.7933.103.4600

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	T104704400-22-24	06-30-23

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: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

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: TOUCH OF GREY STATE COM #1

Job ID: 890-2551-1
SDG: 33.7933.103.4600

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2551-1	FS01	Solid	07/11/22 09:40	07/12/22 16:47	4
890-2551-2	FS02	Solid	07/11/22 09:45	07/12/22 16:47	4
890-2551-3	FS03	Solid	07/11/22 09:50	07/12/22 16:47	4
890-2551-4	FS04	Solid	07/11/22 09:55	07/12/22 16:47	4
890-2551-5	FS05	Solid	07/11/22 10:00	07/12/22 16:47	4
890-2551-6	FS06	Solid	07/11/22 10:05	07/12/22 16:47	4
890-2551-7	FS07	Solid	07/11/22 10:10	07/12/22 16:47	4
890-2551-8	FS08	Solid	07/11/22 10:15	07/12/22 16:47	4
890-2551-9	FS09	Solid	07/11/22 10:20	07/12/22 16:47	4
890-2551-10	SW01	Solid	07/11/22 15:00	07/12/22 16:47	0 - 4
890-2551-11	SW02	Solid	07/11/22 15:05	07/12/22 16:47	0 - 4
890-2551-12	SW03	Solid	07/11/22 15:10	07/12/22 16:47	0 - 4

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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:	Dan Moir	Bill to: (if different)	Dan Moir
Company Name:	Ensolum	Company Name:	Ensolum
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	303-887-2946	Email:	dmoir@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Torch of Grey Fire Lonth(?)	Turn Around	
Project Number:		☐ Routine	☑ Rush
Project Location:	33.7933, -103.4600	Due Date:	2day tat
Sampler's Name:	Kyse Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	TWM-00	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.0	
Total Containers:		Corrected Temperature:	5.8	

ANALYSIS REQUEST — Parameters: BTEX, TPH, Chlorides

890-2551 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX	TPH	Chlorides	Sample Comments
FS01	S	7/11/22	0940	4'			X	X	X	
FS02	↓	↓	0945	↓			↓	↓	↓	
FS03			0950							
FS04			0955							
FS05			1000							
FS06			1005							
FS07			1010							
FS08			1015							
FS09			1020							
SW01			1500	0-4'						

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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 Tl 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 Tl 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
1 [signature]	[signature]	7-12-22 1647			
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Released to Imaging: 9/27/2022 10:39:07 AM
Received by OCD: 9/22/2022 3:20:10 PM

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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:	Deb Mai	Bill to: (if different)	Deb Mai
Company Name:	Ensolum	Company Name:	Ensolum
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Track of Grey State Com #1	Turn Around	
Project Number:		☐ Routine ☑ Rush	
Project Location:		Due Date:	2 day tat
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	Sample Comments
SW02	S	7/11/22	1505	0-4'				X	X	X	
SW03	S	7/11/22	1510	0-4'				X	X	X	

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 Tl 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 Tl 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
1		7.12.22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2551-1
SDG Number: 33.7933.103.4600

Login Number: 2551
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: 890-2551-1
SDG Number: 33.7933.103.4600

Login Number: 2551
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/14/22 10:49 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	

ENSOLUM

APPENDIX F

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 6/24/22
	Site Name: Touch of Grey State Com #1	
	Incident Number:	
	Job Number: 09C 264 1601	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Kyse Parker	Method: HA
Coordinates: 33.7933, -103.4600	Hole Diameter:	Total Depth: 3'

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
M	3,640	0.0		BH01		0.5'		caliche/fine red sand
M	1,204	0.0				1'		fine red sand
M	1,204	0.0				2'		SAA
M	168	0.0				3'		well graded sand

ENSOLUM

Sample Name: BH02	Date: 6/24/22
Site Name: Touch of Grey State Com #1	
Incident Number:	
Job Number: 09E204001	
Logged By: Kyse Parker	Method: HA
Coordinates: 33.7933, -103.4600	Hole Diameter: Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

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
M	ND	0.0		BH02		0.5		caliche/fine red sand
M	168	0.0				1'		fine red sand
M	1,064	0.0				2'		SAA
M	1,349	0.0				3'		SAA
M	168	0.0				4'		silty caliche

ENSOLUM

Sample Name: BH03	Date: 6/24/22
Site Name: Touch of Grey State Com #1	
Incident Number:	
Job Number: 06C204100I	
Logged By: K. Sc. Parker	Method: HA
Coordinates: 32.7933, -103.4600	Hole Diameter: Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

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
M	168	0.0		BH03		0.5'		caliche/fine red sand
M		0.0				1'		
M	ND	0.0				2'		fine red sand
M		0.0				3'		
M	308	0.0				4'		silty caliche

ENSOLUM

Sample Name: BH04	Date: 6/24/22	
Site Name: Touch of Grey State Com #1		
Incident Number:		
Job Number: 092C104 Lo01		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Kyse Parker	Method: HA
Coordinates: 33.7933, -103.4600	Hole Diameter:	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
M	ND	0.0		BH04		0.5		caliche/fine red sand
						1'		
M	ND	0.0				2'		fine red sand
						3'		
M	KP ~~ND~~ 308	0.0				4'		silty caliche

ENSOLUM

Sample Name: BH05	Date: 6/24/22
Site Name: Touch of Grey State Com #1	
Incident Number:	
Job Number: 09L204100I	
Logged By: Kyse Parker	Method: HA
Hole Diameter:	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Coordinates: 33.7933, -103.4600

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
M	235	0.0		BH05		0.5'		caliche/fine red sand
						1'		
M	448	0.0				2'		fine red sand
						3'		
M	448	0.0				4'		silty caliche

ENSOLUM

Sample Name: BH06	Date: 6/24/22
Site Name: Touch of Grey State Com #1	
Incident Number:	
Job Number: 04C2041021	
Logged By: Kaske Parker	Method: HA
Hole Diameter:	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Coordinates: 33.9933, -103.4600

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
M	ND	0.0		BH06		0.5'		caliche/fine red sand
						1'		
M	ND	0.0				2'		fine red sand
						3'		
M	201	0.0				4'		silty caliche

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

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

CONDITIONS

Action 145673

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 145673
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/27/2022