



GAS MITIGATION MONTHLY REPORT - MARCH 2022

Property:

**South Hobbs G/SA Unit
Unit F, Section 5, Township 19S, Range 38E
Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico**

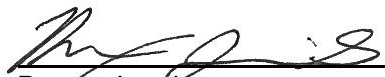
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981**

May 4, 2022

Prepared for:

**Occidental Permian LTD
6001 Deauville Blvd.
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Order No. R-4934-F, Case No. 14981
Unit F, Section 5, Township 19S, Range 38E
Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Occidental Permian LTD (OXY)
Site Name:	South Hobbs G/SA Unit Operations (Site)
Location:	Unit F, Section 5, Township 19 South, Range 38 East Latitude 32.690683, Longitude -103.173158 Lea County, New Mexico
Property Owner:	OXY
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) New Mexico Oil Conservation Division (NMOCD) Order No. R-4934-F Case No. 14981

This Gas Mitigation Monthly Report - March 2022 summarizes activities subsequent to the *Gas Mitigation Monthly Report - November 2021*, dated December 14, 2021, the *Gas Mitigation Monthly Report - December 2021*, dated January 20, 2022, the *Gas Mitigation Monthly Report - January 2022*, dated March 1, 2022, and the *Gas Mitigation Monthly Report - February 2022*, dated March 24, 2022. All wells are located within operations that are part of the South Hobbs Grayburg/San Andres Unit (SHU) Field in the southwestern area of the City of Hobbs, Lea County, New Mexico. Collectively, the Levey water well (Levey Well) and the two (2) monitoring wells (MW-1 and MW-2) are referred to as the "Site".

OXY has investigated groundwater and oil and gas operation well conditions in the area of the Site. A Site Map, which indicates the approximate locations of the Levey Well and monitoring wells MW-1 and MW-2 in relation to pertinent structures and general Site boundaries, is included as **Figure 1 in Appendix A**.

On June 30, 2019, elevated pressure was observed at the Levey Well. At the request of the New Mexico Oil Conservation Division (NMOCD), localized area wells were "shut in" from operational use. Over time, the pressure being observed at the Levey Well declined until pressure was no longer recorded. Observations and water analysis of the Levey water well did identify free gas in the well bore; however, pressure from the underlying groundwater-bearing zone was no longer present.

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Operational data was analyzed as part of the area wide assessment and adjacent wells investigated as potential sources for the gas infiltration. During maintenance operations at SHU #183, located approximately 575 feet southwest of the Levey Well, the SHU #183 well string was pulled, and pressures measured for proof of casing integrity. During these operations, SHU #183 was found to have a casing leak, which is believed to be the source of the pressure observed at Levey well. In response, OXY plugged the SHU #183 well to surface. No other anomalies were observed in the adjacent area oil and gas wells. After SHU #183 was plugged, OXY drilled a nearby replacement well. This replacement well, designated as SHU #297, is currently operational and shows no concerns of free gas migration.

In February of 2020, permission was obtained from the NMOCD to drill two (2) monitoring wells (MW-1 and MW-2) for analysis and observation purposes. Monitoring well MW-1 was installed in the vicinity of the Levey Well and monitoring well MW-2 was installed in the vicinity of SHU #183.

During initial pre-start up background sampling of the Levey Well, MW-1 and MW-2 on two (2) separate events, May 25th and June 20th of 2020, gas with lower explosive limits (LEL's) at or over 60% were observed in the Levey Well and monitoring well MW-2. This finding was consistent with previous analysis and findings within the Levey Well and not an unexpected result as the previous contributions of gas from the SHU #183 had been sufficient to result in pressure at the surface through the Levey Well.

OXY's groundwater monitoring program included the collection of a groundwater sample from each monitoring well (MW-1 and MW-2). The monitoring wells were gauged and sampled on May 26, June 30, August 20, October 23, November 24, December 18, 2020, and weekly thereafter. The Levey Well has been sampled consistently from December 6, 2019, to March 31, 2022. The groundwater samples collected from the monitoring wells (MW-1 and MW-2) were analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) utilizing Environmental Protection Agency (EPA) Method 8015M, volatile organic compounds (VOCs) utilizing EPA Method SW-846 #8260 (full list), carbon dioxide utilizing Standard Method 4500 CO₂ C, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 #300.0 and pH utilizing EPA Method SW-846 #150.1. The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, total dissolved solids (TDS) by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

During the March 2022 groundwater sampling event the groundwater samples did not exhibit constituent concentrations above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs), with the exception of benzene, Nitrite as N and TDS. Benzene concentrations ranged from 0.00236 milligrams per liter (mg/L) to 0.00552 mg/L in the Levey Well and 0.0182 mg/L to 0.0400 mg/L in monitoring well MW-2. Nitrite as N concentrations ranged from 0.389 mg/L to 2.12 mg/L in monitoring well MW-2. TDS analytical results ranged from 1,190 mg/L to 2,130 mg/L in the Levey Well, which exceeds the applicable WQCC GQS of 1,000 mg/L. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). The groundwater analytical summary tables are included in **Appendix B**.

OXY utilized automated processes to compile and monitor dates related to the SHU localized wells to ensure tracking of production and injection activities as related to the re-start of these area operations. No anomalies were observed in the area oil and gas wells that could contribute free gas into the groundwater-bearing zone.

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To mitigate potential exposures, the Levey residence was purchased by OXY and remains unoccupied. A passive vent was installed on the Levey Well to mitigate safety and explosivity concerns for the residential and work area. There has been no detectable build-up of pressure in the Levey Well or monitoring wells MW-1 and MW-2. Hydrogen sulfide (H_2S) has not been detected in any of the three (3) aforementioned wells since July 15, 2020. All detections of H_2S prior to July 15, 2020 were within the well bore. No H_2S above permissible exposure limits was observed outside of the well bores.

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 3/31/2022, with no pressure observed in either monitoring well. The pressure reading charts available for March 2022 are included in **Appendix D**.

The data indicates that pressure sourced from SHU #183 contributed to the infiltration of free gas into the red beds just beneath the groundwater-bearing zone, creating a pressurized pool of gas that traveled to the Levey Well. Once SHU #183 was plugged, the pressure source was removed from the red beds and overlying groundwater-bearing zone and the remaining free gases below remain pooling within the red bed underlying the groundwater-bearing zone. This is supported by the data described above and is consistent with findings reported in two (2) reports, one co-authored and supplied by Lisa Molofsky of GSI Environmental Inc. The first is "Purging and other sampling variables affecting dissolved methane concentration in water supply wells", and the second "Factors affecting the variability of stray gas concentration and composition in groundwater" authored by A.W. Gorody, referenced below. The reports state:

As free-phase gas spreads vertically and/or laterally from a source of release, it can become trapped beneath low permeability sediments (e.g., the "red beds" which separate the overlying Ogallala aquifer from the underlying Santa Rosa). Irregularities in the base topography of these barriers can result in discretized pools of free-phase gas. In many ways, this trapping and accumulation of free-phase gases beneath impermeable units is analogous to the development of structural traps that form in conventional oil and gas reservoirs. This phenomenon can also be viewed as the conceptual inverse of a chlorinated solvent release (a dense NAPL, or "DNAPL") in which the dense liquid can migrate downward through the groundwater via available pathways, until encountering a resistant layer, where the dense liquid pools and accumulates.

In water supply wells, free-phase gas entry is most likely to occur when water levels are lowered in a well by pumping or drought, because this reduces the pressure head resisting gas entry from the formation into the well (Gorody 2012, Molofsky et al. 2018). This may allow free-phase gas to enter the well from one unit (e.g., red bed), while water is primarily originating from another (e.g., the Ogallala aquifer). When the two phases (free-phase gas from the red bed and groundwater from the Ogallala) mix in the water well, there is relatively little time for equilibration under pumping conditions; consequently, dissolved gas concentrations may be very low even though free-phase gas is observed in the well headspace.

These studies and OXY's related findings are that the remaining free gas beneath portions of the Site is pooled within the red beds and the overlying geologic pressure is such that it is confining the free gas. The free gas observed in the Levey Well and monitoring well MW-2 well bores are traveling through these conduits to near surface but lack the pressure to release from the subsurface as the additional pressure from SHU #183 has been eliminated. This coupled with the finding that there is little mixing of constituents of gases into the dissolved phase within the adjacent groundwater supports the understanding that the gases are remaining beneath the water interface and only traveling up to surface when the relative pressure allows it to do so, rather than mixing with the water source.

The data indicates that the current free gas in the subsurface has reached a point of equilibrium and, without influence, is stable. To mobilize the free gas, a pressure change was proposed to release the free gas pool from the subsurface red bed, as described below in Section 1.3.

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during March 14 - 31, 2022 was approximately 248,374 gallons. Due to a severe winter storm on February 2, 2022, the Levey well flowline pump was damaged. Replacement parts were ordered, the pump was repaired and is now active as of March 14, 2022.

1.3 Gas Recovery – Levey Well

OXY conducted two (2) vacuum recovery events during the month of March 2022 with positive results as shown on **Table 4** in **Appendix B**. The purpose of these events is to attach a vacuum pump truck to the Levey Well, creating a vacuum on the wellbore, and displacing the underlying water releasing the overlying pressure restraining the free gas pool, and releasing it to the surface. This process will continue into April 2022 once every two (2) weeks until the sampling results of the air is minimal after displacement of the overlying pressure, or the process proves to become ineffective.

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air samples on March 14 and 30, 2022 were taken prior to, during, and subsequent to each vacuum recovery event utilizing a Summa® canister. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour. An air sample is taken after one (1) hour of the Levey Well stabilization, prior to initiating the vacuum recovery event. The vacuum is applied to the Levey Well for a duration of approximately one (1) hour. Approximately 15 minutes and 45 minutes into the event, an air sample is taken. The vacuum is then turned off and an additional air sample from the Levey Well is taken one (1) hour subsequent to each vacuum recovery event. Water was not recovered during either vacuum recovery event.

The Summa® canisters were shipped under proper chain-of-custody to Pace Analytical Laboratory in Mount Juliet, TN for analysis of volatile organic compounds (VOCs) by Method TO-15. Laboratory analytical results are summarized in **Table 4** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets from the March 2022 sampling events are provided in **Appendix C**.

2.2 Groundwater Sampling Program

Groundwater sampling events were conducted each week on the Levey Well and monitoring wells MW-1 and MW-2. The groundwater sampling program followed the requirements from NMOCD and consists of the following:

Levey Well

As of July 1, 2021, the Levey water well ran full time until February 2, 2022. The Levey well recovered groundwater is transferred via flowline to a nearby tank battery for proper disposal. Prior to sample collection, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour prior to sampling. Once the Levey Well is properly purged and readings from the YSI Pro Plus stabilize, a groundwater sample is collected.

As previously stated, due to a severe winter storm on February 2, 2022, the Levey well flowline pump was damaged. Replacement parts were ordered, the pump was repaired and is now active as of March 14, 2022.

The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, TDS by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

Monitoring Wells MW-1 and MW-2

Prior to sample collection, the depth to fluids in each monitoring well (MW-1 and MW-2) are gauged using a water level meter capable of detecting groundwater up to 0.01 feet. Each monitoring well is then sampled utilizing micro-purge low-flow sampling techniques. Subsequent to the completion of the micro-purge process, one (1) groundwater sample is collected from each monitoring well.

The groundwater samples collected from monitoring wells MW-1 and MW-2 were analyzed for TPH GRO, TPH DRO and ORO utilizing EPA Method 8015M, VOCs utilizing EPA Method SW-846 #8260, carbon dioxide utilizing Standard Method 4500, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 300.0 and pH utilizing EPA Method SW-846 #150.1.

Low flow refers to the velocity with which groundwater enters the pump intake and is imparted to the formation water in the immediate vicinity of the well screen. The objective is to pump in a manner that minimizes stress (drawdown) to the system, to the extent practical, taking into account established Site sampling objectives. Flow rates on the order of 0.1 to 0.5 liters per minute (l/min) will be maintained during sampling activities, using dedicated or decontaminated sampling equipment.

The groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements during purging are taken every three (3) to five (5) minutes. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three (3) successive readings.

Groundwater samples were collected in laboratory supplied containers, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Eurofins Xenco (formerly Xenco) of Midland, Texas under proper chain-of-custody procedures.

Laboratory analytical results are summarized in **Tables 1** through **Table 3** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

3.0 DATA EVALUTATION

3.1 Air Samples

Gas mitigation activities at the Levey Well began on November 8, 2021 and will continue on a bi-weekly basis through April 2022. Based on the concentrations observed in the Levey Well air samples, the vacuum recovery events are drawing the free gas over to the Levey Well. Prior to each vacuum recovery event, an air sample is taken to give a representative snapshot of static conditions of gas in the subsurface. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and/or TPH were observed prior to the initiation of each vacuum recovery event.

Once initiated, an air sample is taken at 15 minutes and 45 minutes into the vacuum recovery event. During each of the vacuum recovery events, acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, 2-Butanone (MEK), toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and TPH concentrations significantly decrease throughout the duration of the event.

Approximately one (1) hour after the termination of the vacuum recovery event, a final air sample is collected. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and TPH begin to accumulate inside the Levey water well casing. These results indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

Air samples are also collected on a bi-weekly basis approximately one (1) week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, o-xylene and/or TPH were observed inside the Levey water well casing. These results again indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

3.2 Groundwater Samples

Ensolum compared the laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the February 2022 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQSs. The results of the groundwater sample analyses are summarized in **Table 1** through **Table 3** of **Appendix B**. All analytical results were below the WQCC GQSs, with the exception of the analytes, as discussed below.

Levey Well

TDS analytical results ranged from 1,190 mg/L to 2,130 mg/L in the Levey Well, which exceeds the applicable WQCC GQS of 1,000 mg/L. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three (3) groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

The Levey Well sampling first began on December 6, 2019. Through mitigation activities, including groundwater recovery and vacuum recovery events, the benzene concentration in the Levey Well has significantly decreased over time, with the exception of December 29, 2021, which had a benzene analytical result of 0.00611 mg/L, the January 19, 2022, which had a benzene analytical result of 0.00684 mg/L and the March 9, 2022, which had a benzene analytical result of 0.00552 mg/L, which exceeds the WQCC GQS of 0.005 mg/L. This slight rise in concentration is indicative that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well. Benzene concentrations over time are graphed and included in **Appendix A**, showing the significant decrease of benzene in the Levey Well over time.

In addition, the chloride concentrations in the Levey Well have significantly decreased over time. Although chloride concentrations during two (2) sampling events in March 2022 exceed the WQCC GQS of 250.0 mg/L, the increase in concentrations is likely due to the Levey well pump being inactive during the time of sampling.

Monitoring Well MW-1 and MW-2

The groundwater samples collected from monitoring well MW-1 did not exhibit benzene concentrations above the WQCC GQS of 0.005 mg/L. The groundwater samples collected from monitoring well MW-2 exhibited benzene concentrations ranging from 0.0182 mg/L to 0.0400 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

The groundwater samples collected from monitoring well MW-1 did not exhibit Nitrite as N concentrations above the WQCC GQS of 1.0 mg/L. Several Nitrite as N exceedance of 2.12 mg/L, 1.47 mg/L and 1.65 mg/L from monitoring well MW-2 were observed during the March 2022 sampling, which are above the WQCC GQS of 1.0 mg/L.

All other VOC concentrations were either below the laboratory reporting limit or below the WQCC GQS protective concentrations. All laboratory reporting limits were below the WQCC GQS protective concentrations, indicating a lack of dissolved phase gas infiltration into the localized groundwater.

4.0 RECOMMENDATIONS

OXY has demonstrated over time that the SHU #290 and the surrounding oil and gas operations were and are not a contributor to the previous related pressure observed in the Levey Well. This has been demonstrated by over four (4) months of readings (**Appendix D**) which show that the pressures and gas readings are very consistent with pre-injection background, including, but not limited to carbon dioxide. The plugging of the SHU #183 well has shown to be effective in discontinuing the source of free gas related to the Levey water well.

Based on verbal communication between OXY and NMOCD, OXY concurs with the following recommendations and/or requests from the NMOCD through the remainder of 2022:

- **Continue to remove free gas accumulations from the underlying red bed and groundwater-bearing zone on a bi-weekly basis to acceptable levels of removal to achieve compliance expectations. The air sampling process performed at the Levey Well will continue to be utilized, as described in Section 2.1;**
- **Continue to monitor the Levey Well and monitoring wells MW-1 and MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved; and**
- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 for the remainder of 2022.**

5.0 REFERENCES

GSI Environmental Inc. Preliminary Draft -Results of Water Supply Well Sampling and Investigation. November 2019. Hobbs New Mexico Municipal Code, Title 13.04.017. Accessed Sept. 2020.

New Mexico Environment Department. 2018. 20.6.2 NMAC: Title 20 (Environmental Protection), Chapter 6 (Water Quality), Part 2 (Ground and Surface Water Protection). Amended December 11th, 2019.

Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the New Mexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.

Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition ingroundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.

Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methane concentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



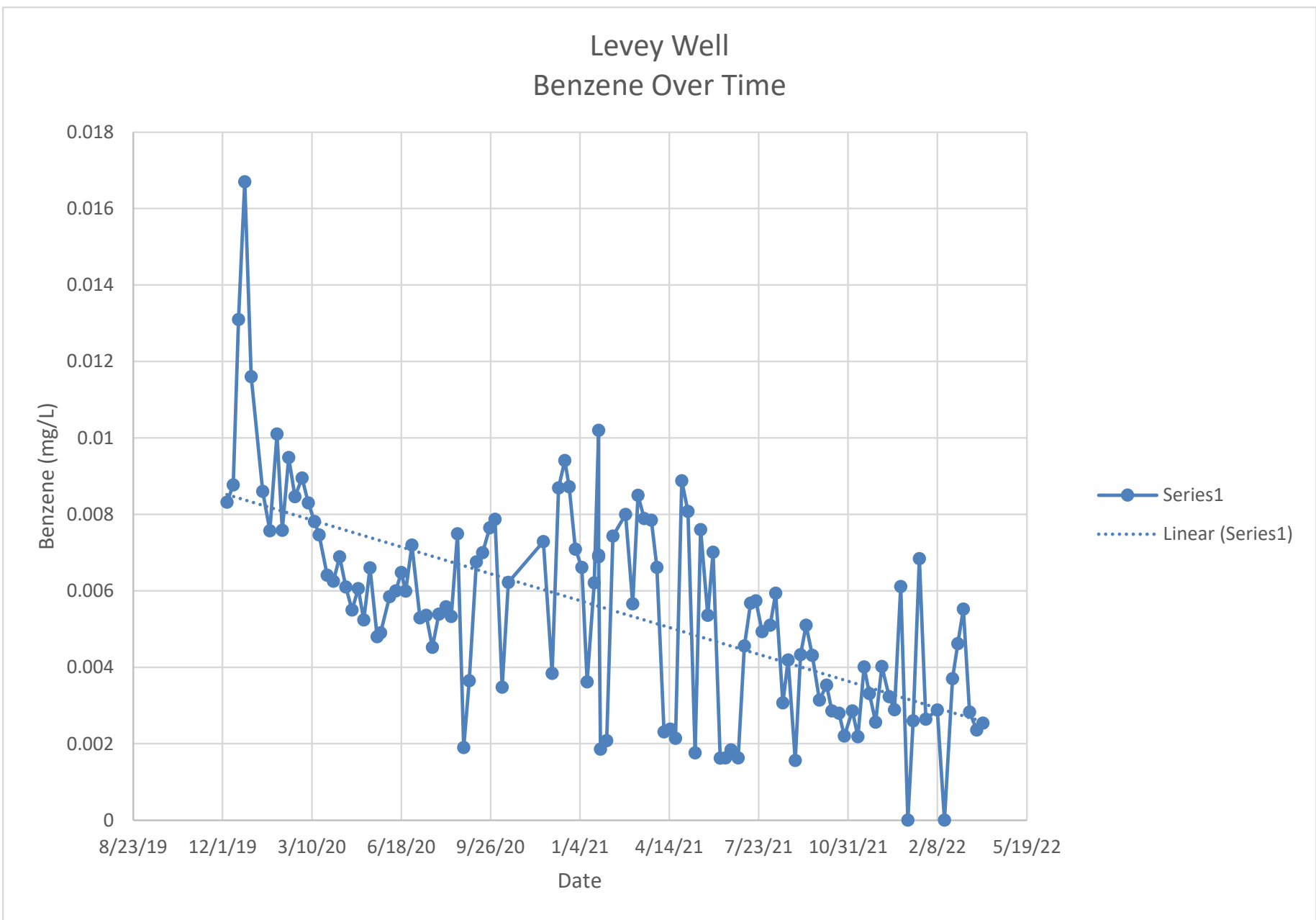
SITE MAP

PERMIAN EOR, INC
S HOBBS G/SA UNIT
SE ¼ of the NW ¼, Sec 5, T29S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W

PROJECT NUMBER: 03B1417001

FIGURE

1





APPENDIX B

Tables

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well																													
Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropane	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	12/6/2019	0.00832	0.0708	0.0296	0.0242	0.129	0.153	<0.0500	0.00151	0.00206	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00138	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0126	<0.0100	0.00566	<0.00100	<0.00100	0.0358	0.0106
	12/13/2019	0.00877	0.0654	0.0271	0.0233	0.121	0.144	<0.0500	0.00118	0.00171	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00112	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0112	<0.0100	0.00470	<0.00100	<0.00100	0.0315	0.00944
	12/19/2019	0.0131	0.0861	0.0385	0.0318	0.170	0.202	0.0125 J	0.00187	0.00257	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00173	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0170	<0.00200	0.00747	<0.000228	<0.000162	0.0469	0.0144
	12/26/2019	0.0167	0.112	0.0514	0.0459	0.210	0.256	<0.0500	0.00211	0.00320	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00183	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0235	<0.0100	0.00934	<0.00100	<0.00100	0.0672	0.0168
	1/2/2020	0.0116	0.0644	0.0551	0.0805	0.232	0.313	<0.0500	0.00231	0.00164	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00127	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0107	0.0120	0.00544	<0.00100	0.00243	0.0377	0.0106
	1/15/2020	0.00860	0.0528	0.0318	0.0219	0.119	0.141	<0.0500	<0.00100	0.00259	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0148	<0.0100	0.0104	<0.00100	<0.00100	0.0547	0.0172
	1/23/2020	0.00757	0.0462	0.0318	0.0224	0.119	0.141	<0.0500	0.00233	0.00295	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00180	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0158	<0.0100	0.0166	<0.00100	<0.00100	0.103	0.0300
	1/31/2020	0.0101	0.0567	0.0462	0.0385	0.166	0.205	<0.500	<0.0100	<0.0100	0.0438	<0.00100	<0.0100	NA	0.0343	0.0344	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	0.0584	0.0262	<0.100	0.0458	<0.0100	<0.0100	0.323	0.0847
	2/6/2020	0.00758	0.0489	0.0306	0.0242	0.116	0.140	<0.0500	0.00234	0.00299	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00165	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0174	<0.0100	0.0237	<0.00100	<0.00100	0.285	0.0451
	2/13/2020	0.00949	0.0498	0.0397	0.0337	0.145	0.179	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00251	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0251	<0.0100	0.0450	<0.00100	<0.00100	0.349	0.0898
	2/20/2020	0.00846	0.0326	0.0313	0.0248	0.113	0.138	<0.0500	<0.00100	0.00407	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00229	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0208	<0.0100	0.0431	<0.00100	<0.00100	0.322	0.0918
	2/28/2020	0.00895	0.0351	0.0374	0.0251	0.124	0.149	<0.250	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	<0.00100	<0.0250	0.0249	<0.0500	0.0488	<0.00500	<0.00500	0.358	0.0989
	3/6/2020	0.00830	0.0313	0.0346	0.0228	0.114	0.137	<0.0500	0.00374	0.00467	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00254	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0231	<0.0100	0.0472	<0.00100	<0.00100	0.378	0.0948
	3/13/2020	0.00781	0.0302	0.0330	0.0203	0.109	0.129	<0.0500	0.00153	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00247	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0224	<0.0100	0.0428	<0.00100	<0.00100	0.277	0.0875
	3/18/2020	0.00746	0.0279	0.0304	0.0174	0.0981	0.116	<0.0500	0.00311	0.00400	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00224	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0199	<0.0100	0.0365	<0.00100	<0.00100	0.275	0.0777
	3/27/2020	0.00641	0.0151	0.0247	0.0132	0.0737	0.0869	<0.0500	0.00122	0.00345	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00189	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0166	<0.0100	0.0336	<0.00100	<0.00100	0.261	0.0721
	4/3/2020	0.00625	0.0129	0.0250	0.0130	0.0745	0.0875	<0.0500	0.00120	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00209	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0174	<0.0100	0.0363	<0.00100	<0.00100	0.273	0.0756
	4/10/2020	0.00689	0.0327	0.0277	0.0159	0.0924	0.108	<0.0500	0.00253	0.00338	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00188	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0171	<0.0100	0.0300	<0.00100	<0.00100	0.264	0.0580
	4/17/2020	0.00610	0.0258	0.0253	0.0141	0.0814	0.0955	<0.0500	0.00238	0.00321	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00175	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0164	<0.0100	0.0280	<0.00100	<0.00100	0.220	0.0562
	4/24/2020	0.00550	0.0241	0.0225	0.0125	0.0756	0.0881	<0.0500	<0.00100	0.00297	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00179	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0148	<0.0100	0.0251	<0.00100	<0.00100	0.199	0.0526
	5/1/2020	0.00606	0.0277	0.0237	0.0129	0.0773	0.0902	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0143	<0.0100	0.0242	<0.00100	<0.0100	0.185	0.0513
	5/7/2020	0.00524	0.0168	0.0211	0.0108	0.0655	0.0763	<0.0500	<0.00100	0.00306	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00171	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0270	<0.00100	<0.0100	0.202	0.0582
	5/14/2020	0.00660	0.0357	0.0268	0.0141	0.0882	0.102	<0.0500	0.00236	0.00324	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00191	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0165	<0.0100	0.0236	<0.00100	<0.00100	0.201	0.0453
	5/22/2020	0.00480	0.00851	0.0193	0.00896	0.0567	0.0657	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00194	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0137	<0.0100	0.0276	<0.00100	<0.00100	0.187	0.0597
	5/26/2020	0.00490	0.0169	0.0210	0.0109	0.0637	0.0746	<0.0500	0.00122	0.00300	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00164	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0256	<0.00100	<0.00100	0.192	0.0532
	6/5/2020	0.00585	0.0317	0.0228	0.0117	0.0744	0.0861	<0.0500	0.00183	0.00271	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00155	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0134	<0.0100	0.0182	<0.00100	<0.00100	0.129	0.0367
	6/12/2020	0.00600	0.0299	0.0231	0.0122	0.0757	0.0879	<0.0500	<0.00100	0.00283	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00154	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.02				

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethy/lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(V)ylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well (cont')	1/6/2021	0.00661	0.0494	0.0239	0.0141	0.0930	0.107	<0.0500	<0.00100	0.00233	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00140	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0122	<0.0100	0.00710	<0.00100	<0.00100	0.0334	0.0113
	1/12/2021	0.00362	0.0206	0.0168	0.00849	0.0547	0.0632	<0.0500	0.00159	0.00278	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00157	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00959	<0.00100	<0.00100	0.0540	0.0174
	1/20/2021	0.00621	0.0383	0.0245	0.0137	0.0884	0.102	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.00920	<0.00100	<0.00100	0.0470	0.0152
	1/25/2021	0.0102	0.0717	0.0337	0.0195	0.130	0.150	<0.0500	0.00167	0.00287	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00162	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0162	<0.0100	0.00914	<0.00100	<0.00100	0.0455	0.0149
	1/25/2021	0.00689	0.0353	0.0243	0.0113	0.0733	0.0846	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0127	<0.0100	0.0115	<0.00100	<0.00100	0.0687	0.0205
	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00101	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00756	<0.0100	0.0156	<0.00100	<0.00100	0.0945	0.0282
	2/10/2021	0.00743	0.0531	0.0280	0.0157	0.104	0.120	<0.0500	0.00140	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0142	<0.0100	0.00876	<0.00100	<0.00100	0.0448	0.0143
	2/24/2021	0.00800	0.0593	0.0287	0.0177	0.109	0.127	<0.0500	<0.00100	0.0024	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239
	5/19/2021	0.00760	0.0603	0.0296	0.0182	0.112	0.130	0.0188 J	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00157	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0146	<0.00200	0.00825	<0.000228	<0.000623	0.0403	0.0128
	5/27/2021	0.00536	0.0360	0.0206	0.0117	0.0657	0.0774	0.0139 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0111	<0.00200	0.00924	<0.000228	<0.000623	0.0483	0.0150
	6/2/2021	0.00701	0.0521	0.0258	0.0154	0.0906	0.106	<0.00270	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00160	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0130	<0.00200	0.00800	<0.000228			

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylen	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylen	1,4-Dichlorobenzene	1,1-Dichloropropane	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	5/26/2020	0.000500 J	<0.000500	<0.000146	<0.000192	0.00215 J	0.00215	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00101	0.0005 J
	6/30/2020	0.00275	<0.00100	<0.00100	<0.00100	0.0136	0.0136	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00665	0.00271
	8/20/2020	0.00222	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00388	0.00175
	10/23/2020	0.00353	<0.000367	<0.000657	<0.000642	0.00246 J	0.00246											NA											
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00151	0.000820 J
	12/18/2020	0.00257	<0.000500	0.000580 J	<0.000192	0.00145 J	0.00145	<0.00270	<0.000286	0.000350 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000320 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00234	0.00111
	12/23/2020	0.00159	<0.000500	0.000380 J	<0.000192	0.000970 J	0.000970 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	0.000230 J	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000720 J	0.000360 J
	12/30/2020	0.00194	<0.000500	0.000470 J	<0.000192	0.00148 J	0.00148	<0.00270	<0.000286	0.000230 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000240 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00154	0.000750 J
	1/6/2021	0.00209	<0.000500	0.000330 J	<0.000192	0.00122 J	0.00122	<0.00270	<0.000286	0.000310 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000190 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00219	0.00103
	1/12/2021	0.00211	0.000690 J	0.000540 J	<0.000192	0.00163 J	0.00163	<0.00270	<0.000286	0.000220 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000670 J
	1/20/2021	0.00222	<0.000500	0.000430 J	<0.000192	0.00137 J	0.00137	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00140	0.000720 J
	1/27/2021	0.00157	<0.000500	0.000400 J	<0.000192	0.00123 J	0.00123	0.00398 J	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00153	0.000830 J
	2/3/2021	0.00203	<0.000500	0.000430 J	<0.000192	0.00100 J	0.00100 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000180 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00105	0.000510 J
	2/10/2021	0.00196	<0.000500	0.000560 J	<0.000192	0.00143 J	0.00143	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000300 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000740 J
	2/24/2021	0.00158	<0.000500	0.000460 J	<0.000192	0.00110 J	0.0011	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000930 J	0.000490 J
	3/4/2021	0.00139	<0.000500	0.00102	<0.000192	0.00211 J	0.00211	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000440 J	<0.00200	0.000240 J	<0.000228	<0.000162	0.00131	0.000680 J
	3/10/2021	0.00143	<0.000500	0.000490 J	<0.000192	0.000900 J	0.000900 J	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000780 J	0.000370 J
	3/17/2021	0.00159	<0.000500	0.000790 J	<0.000192	0.00183 J	0.00183	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000380 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00145	0.000570 J
	3/25/2021	0.00159	<0.00100	0.000533 J	<0.00100	0.00123 J	0.00123 J	<0.0500	<0.00100	0.000214 J	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.000253 J	<0.0100	<0.00100	<0.00100	<0.00100	0.00152	<0.00100
	3/31/2021	0.00161	<0.000500	0.000333 J	<0.000192	0.000714 J	0.000714 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	<0.00100	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000980 J	0.000392 J
	4/8/2021	0.00128	<0.000500	0.000463 J	<0.000192	0.000985 J	0.000985 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000214 J	<0.00200	0.000271 J	<0.000228	<0.000162	0.00171	<0.000279
	4/15/2021	0.00124	<0.000500	0.000366 J	<0.000192	0.00140 J	0.00140 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.0	

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.00500	<0.000259	NA	<0.000214	<0.000183	0.000660	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00223	<0.00200	0.000570 J	<0.000228	<0.000162	0.0125	0.00704
	6/30/2020	0.0124	0.0193	0.0187	0.0196	0.0903	0.110	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00667	<0.0100	0.00243	<0.00100	<0.00100	0.0231	0.00815
	8/20/2020	0.0148	0.0172	0.0182	0.0160	0.0802	0.0962	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00640	<0.0100	0.00170	<0.00100	<0.00100	0.0145	0.00421
	10/23/2020	0.0250	0.00730	0.0248	0.0186	0.110	0.129	NA											NA										
	11/24/2020	0.0358	0.0613	0.0503	0.0465	0.221	0.2675	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.000259	<0.000174	<0.000199	<0.000481	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00725	<0.0100	0.00229	<0.00100	<0.00100	0.0224	<0.00100
	3/31/2021	0.0298	0.0107	0.0177	0.0203	0.124	0.144	<0.00270	<0.000286	0.00137	<0.000195	<0.000500	<0.00100	<0.0100	0.00151	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0.00270	0.000640 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000579 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00799	<0.00200	0.00235	<0.000228	<0.000162	0.0237	<0.000279
	4/15/2021	0.0260	0.0132	0.0236	0.0176	0.129	0.147	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000925 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0102	<0.00200	0.00320	<0.000228	<0.000162	0.0381	0.00968
	4/21/2021	0.0220	0.00991	0.0180	0.0162	0.118	0.134	<0.00270	0.000776 J	0.00121	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000901 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0106	<0.00200	0.00267	<0.000228	<0.000623	0.0364	<0.000279
	4/28/2021	0.0320	0.0265	0.0408	0.0297	0.187	0.217	<0.00270	0.00121	0.00159	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00127	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0159	&					



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	12/6/2019	<0.500	253	<0.500	0.594	0.199	61.5	405	65.0	5.27	83.7	1,680	1,260	<4.00	2.70	6.45
	12/13/2019	<0.500	315	<0.500	0.744	0.222	72.9	450	80.1	6.71	110	1,900	1,230	<4.00	2.00	7.02
	12/19/2019	0.414 J	311	0.381 J	0.539	<0.0293	62.9	411	72.2	5.61	101	1,640	1,140	<4.00	0.200	6.57
	12/26/2019	<0.500	257	<0.500	0.617	0.204	61.7	418	68.8	5.82	88.5	1,760	1,280	<4.00	1.30	6.44
	1/2/2020	<0.500	302	<0.500	0.331	<0.100	60.6	375	70.5	5.96	98.8	1,630	1,150	<4.00	2.40	6.83
	1/15/2020	<0.500	190	0.559	0.129	0.930	53.5	401	66.8	4.82	82.9	1,570	1,260	<4.00	0	6.35
	1/23/2020	<0.500	195	0.617	0.126	0.128	46.2	426	76.3	8.84	86.4	1,530	1,230	<4.00	1.60	6.21
	1/31/2020	<0.500	197	0.616	0.129	<0.100	48.5	446	79.1	7.43	89.5	1,440	1,230	<4.00	3.20	6.15
	2/6/2020	<0.500	316	<0.500	0.179	<0.100	64.2	430	76.0	7.60	101	1,100	1,180	<4.00	1.10	6.07
	2/13/2020	<2.50	293	0.623	0.178	<0.500	57.3	409	74.5	6.80	95.7	1,640	1,200	<4.00	0.300	6.04
	2/20/2020	<0.500	272	0.586	0.157	<0.100	49.6	421	71.4	6.38	91.4	1,690	1,220	<4.00	0.300	5.93
	2/28/2020	<0.500	307	<0.500	1.05	1.35	56.6	438	74.0	5.98	97.4	1,620	1,230	<4.00	0.400	6.12
	3/6/2020	<0.500	284	0.621	0.107	1.27	56.2	418	67.9	5.60	92.7	1,880	1,230	<4.00	0.800	6.26
	3/13/2020	<0.500	316	0.629	<0.100	<0.100	59.3	393	63.3	5.32	91.2	1,770	1,200	<4.00	4.30	6.23
	3/18/2020	0.533	332	0.642	0.128	<0.100	63.5	391	67.4	5.56	95.7	1,680	1,180	<4.00	3.80	6.44
	3/27/2020	0.533	324	0.728	<0.100	<0.100	57.6	418	70.3	5.91	105	1,610	1,180	<4.00	0.200	6.57
	4/3/2020	<0.500	304	0.807	0.110	<0.100	57.3	417	69.0	5.91	101	1,960	1,180	<4.00	0.200	6.37
	4/10/2020	0.575	351	0.612	0.172	<0.100	61.8	431	72.3	6.17	104	1,930	1,190	<4.00	0.600	6.73
	4/17/2020	0.590	353	0.691	0.165	<0.100	59.7	406	73.2	5.40	108	1,750	1,180	<4.00	1.70	6.51
	4/24/2020	0.595	370	0.723	0.152	<0.100	61.2	408	75.2	5.55	113	1,810	1,130	<4.00	0.600	6.32
	5/1/2020	0.576	376	0.686	0.140	<0.100	61.8	402	74.6	5.39	106	1,750	1,130	<4.00	1.90	6.37
	5/7/2020	0.517	365	0.675	0.163	<0.100	58.8	425	70.5	5.57	108	1,640	1,140	<4.00	0.00	6.55
	5/14/2020	0.571	409	0.585	0.160	<0.100	56.0	412	76.5	6.23	107	1,900	1,200	<4.00	3.70	6.34
	5/22/2020	0.531	319	0.561	1.550	<0.100	30.1	354	63.7	5.24	97.4	1,360	1,190	<4.00	6.10	6.54
	5/26/2020	0.549	357	0.688	0.153	<0.100	44.5	356	69.6	5.67	102	1,650	1,170	<4.00	6.30	6.42
	6/5/2020	0.640	417	0.535	0.139	<0.100	39.9	379	73.3	5.92	108	1,670	1,160	<4.00	5.90	6.30
	6/12/2020	0.602	359	0.697	0.145	<0.100	43.9	386	72.4	6.70	106	1,670	1,140	<4.00	2.40	6.22
	6/18/2020	0.576	431	<5.00	0.144	<0.100	39.5	418	78.8	6.23	115	1,800	1,180	<4.00	2.40	6.28
	6/23/2020	0.586	398	<5.00	0.136	<0.100	33.3	361	66.3	5.48	98.2	1,920	1,190	<4.00	8.40	6.23
	6/30/2020	0.695	431	<5.00	0.149	<0.100	37.9	437	78.6	6.70	113	1,830	1,170	<4.00	2.60	6.39
	7/9/2020	0.647	413	<5.00	0.147	0.215	40.5	421	78.5	6.58	114	1,790	1,170	<4.00	1.50	6.37
	7/16/2020	0.657	390	<5.00	0.128	<0.100	40.6	402	77.6	7.01	114	1,890	1,170	<4.00	1.90	6.34
	7/23/2020	0.621	396	<5.00	0.175	0.169	36.5	419	74.0	6.58	111	2,000	1,160	<4.00	1.10	6.22
	7/30/2020	0.669	390	0.625	0.181	<0.100	39.3	397	71.4	5.59	103	1,910	1,170	<4.00	3.70	6.18
	8/7/2020	0.631	387	0.526	0.186	1.75	36.1	404	79.5	6.73	111	1,810	1,150	<4.00	0.900	6.12
	8/13/2020	0.713	408	0.505	0.191	1.45	34.9	368	75.1	6.54	115	1,980	1,150	<4.00	5.00	6.26
	8/20/2020	0.690	449	<0.500	0.164	<0.100	38.7	389	69.0	5.99	113	2,000	1,090	<4.00	4.40	6.18
	8/27/2020	0.846	582	<0.500	0.158	1.68	49.4	446	82.6	7.17	161	2,570	973	<4.00	1.50	6.35
	9/2/2020	0.868	635	<0.500	0.159	<0.100	48.1	422	77.9	7.25	168	1,620	1,030	<4.00	3.40	6.30
	9/10/2020	0.714	499	<0.500	<0.100	1.61	41.9	387	79.4	6.53	133	1,980	1,090	<4.00	4.20	6.10
	9/17/2020	0.769	472	<0.500	0.272	1.06	40.8	467	73.4	6.45	119	1,930	1,110	<4.00	1.10	6.14
	9/25/2020	0.779	541	<0.500	0.150	<0.100	44.0	386	75.9	5.86	133	1,680	1,110	<4.00	6.70	6.17
	10/1/2020	0.721	466	<0.500	0.173	<0.100	41.4	398	75.5	6.25	124	1,940	1,110	<4.00	3.30	6.07
	10/9/2020	0.786	527	<0.500	0.161	<0.100	43.8	426	79.8	6.90	139	2,220	1,090	<4.00	1.90	6.21
	10/16/2020	0.595	460	0.511	<0.100	<2.00	45.7	376	72.5	5.90	122	2,020	1,080	<4.00	4.80	6.20
	11/24/2020	0.817	572	<0.500	0.124	2.07	37.5	438	79.6	6.56	141	2,200	1,100	<4.00	2.60	6.45
	12/4/2020	0.687	706	<0.500	0.142	3.27	30.9	405	75.8	7.09	143	2,000	1,050	<4.00	9.30	6.33
	12/11/2020	0.816	487	0.949	0.197	1.80	33.4	445	82.0	6.90	133	1,990	1,160	<4.00	0.200	6.20
	12/18/2020	0.763	497	<5.00	0.129	1.87	37.6	424	79.5	6.97	137	1,910	1,180	<4.00	2.70	6.39
	12/23/2020	0.613	477	<5.00	0.108	<0.100	38.3	416	78.2	7.82	129	1,800	1,290	<4.00	5.70	6.22
	12/30/2020	0.712	493	<0.500	<0.100	<0.100	40.1	448	80.0	6.21	139	2,120	1,340	<4.00	4.40	6.14



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well (Cont.)	1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27
	1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57
	1/20/2021	0.796	486	<0.500	0.138	<0.100	7.68	397	73.0	6.00	127	2,170	1,200	<4.00	5.70	6.24
	1/27/2021	0.510	264	0.905	0.137	1.16	23.1	296	55.1	4.75	83.1	1,350	875	<4.00	1.70	6.38
	2/3/2021	0.501	275	0.842	0.122	1.02	20.5	329	59.0	4.76	89.4	1,370	940	<4.00	0.00	6.37
	2/10/2021	0.615	561	<0.500	0.147	0.308	24.9	416	77.9	7.03	156	1,980	1,170	<4.00	4.50	6.31
	2/24/2021	0.695	576	<0.500	0.163	2.6	31.4	450	81.3	7.94	164	2,260	1,190	<4.00	2.50	6.22
	3/4/2021	0.789	585	<0.500	0.121	0.215	54.1	425	77.8	6.41	151	2,090	1,050	<4.00	3.00	6.34
	3/10/2021	0.756	540	<0.500	0.147	<0.100	45.5	417	76.3	5.54	139	1,940	1,160	<4.00	5.10	6.29
	3/17/2021	0.813	519	1.21	0.169	<0.100	33.8	436	71.3	6.10	127	1,910	1,200	<4.00	4.70	5.97
	3/25/2021	<10.0	529	<10.0	<2.00	1.99 J	20.2	435	78.0	7.14	136	2,320	1,250	<4.00	-10.80	6.60
	3/31/2021	0.785	499	0.358 J	0.130	<0.0293	16.5	416	74.3	6.73	132	1,650	1,150	<4.00	-9.18	6.40
	4/8/2021	<0.500	254	0.869	<0.100	0.121	23.3	271	46.7	5.00	74.5	1,120	785	<4.00	-9.60	6.50
	4/15/2021	0.545	253	0.939	<0.100	<0.100	34.1	283	53.5	4.66	82.8	998	793	<4.00	-7.22	6.50
	4/21/2021	0.460 J	253	0.729	0.125	<0.0293	9.23	278	52.4	4.83	81.4	1,210	869	<4.00	-10.1	6.40
	4/28/2021	0.841	497	0.196 J	0.133	<0.0293	21.2	416	75.8	6.88	133	2,000	1,290	<4.00	-12.5	6.30
	5/5/2021	0.780	475	0.362 J	0.151	<0.0293	13.6	428	80.1	7.43	123	2,120	1,230	<4.00	-9.6	6.20
	5/13/2021	0.469 J	239	1.01	0.126	0.756 J	28.5	238	46.1	4.10	72.6	1,150	737	<4.00	-11.9	6.70
	5/19/2021	0.725	566	0.324 J	<0.0391	2.93	21.0	494	91.6	8.14	164	2,160	1,260	<4.00	-5.71	6.30
	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.50
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.30
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.50
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.70
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.70
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.90
	7/1/2021	Levey Well Now Running Full Time														
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.60
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.40
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.40
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.20
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.60
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.40
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.60
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.60
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.00
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.60
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.40
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.60
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.60
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.60
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.70
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.50
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.70
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.90
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.00
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.60
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.60
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.90
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.50
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.40
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.40
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.60
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.40
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.10
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.30
	1/26/2022	0.440 J	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.40
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.														
	2/8/2022	0.780	329	1.24	<0.0391	0.420	62.0	272	58.5	4.77	97.0	1,410	756	<4.00	-11.40	6.50
	2/16/2022	0.488 J	217	0.769	0.0551 J	0.349	27.9	212	46.2	3.76	74.5	1,070	555	<4.00	-6.59	6.60
	2/25/2022	0.726	484	0.902	0.141	<0.0293	31.2	429	78.2	6.80	139	1,960	1,210	<4.00	-9.05	6.40
	3/3/2022	0.606	380	1.76	0.220	0.175	39.8	410	78.2	7.36	137	2,130	1,190	<4.00	-6.76	6.30
	3/9/2022	0.507	355	1.10	0.147	<0.0293	42.6	422	79.4	7.55	129	1,820	1,160	<4.00	-4.98	6.30
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.														
	3/16/2022	0.380 J	229	0.464 J	0.208	<0.0293	42.2	258	55.9	4.48	85.6	1,190	673	<4.00	-4.29	6.40
	3/24/2022	0.539	230	0.709	<0.0391											



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)													%	SU			
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-1	5/26/2020	NA	363	0.913	0.998	1.03	283	NA											7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA	6.75			
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA	6.30			
	10/23/2020	NA	353	NA															
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400	6.45			
	12/18/2020	NA	375	NA				414	79.7	5.41	117	1,380	1,160	<4.00	1.30	6.58			
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10	6.56			
	12/30/2020	NA	347	NA													6.37		
	1/6/2021	NA	325	NA													6.51		
	1/12/2021	NA	359	NA										1,160	<4.00	NA	6.42		
	1/20/2021	NA	353	NA										1,160	<4.00	NA	6.34		
	1/27/2021	NA	334	NA										1,010	<4.00	NA	6.44		
	2/3/2021	NA	368	NA										1,130	<4.00	NA	6.38		
	2/10/2021	NA	339	NA										1,160	<4.00	NA	6.45		
	2/24/2021	NA	343	NA										1,070	<4.00	NA	6.45		
	3/4/2021	NA	339	NA										1,070	<4.00	NA	6.38		
	3/10/2021	NA	324	NA										1,020	<4.00	NA	6.34		
	3/17/2021	NA	330	NA										1,020	<4.00	NA	6.16		
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5	NA					980	<4.00	NA	6.90			
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.70			
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.50			
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.60			
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.50			
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.50			
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.50			
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.80			
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.50			
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.30			
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.50			
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.60			
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.70			
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.80			
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.70			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9	NA					761	<4.00	NA	6.80			
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.80			
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.70			
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.70			
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.90			
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.60			
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.80			
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.80			
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.80			
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.90			
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.00			
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.90			
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.90			
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.90			
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.10			
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.10			
11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.00				
11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.10				
11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.40				
11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.80				
12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.30				
12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.90				
12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.90				
12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.10				
12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.30				
1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.00				
1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.70				
1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.00				
1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.10				
2/2/2022		Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																	
2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6	NA					380	<4.00	NA	6.90				
2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5	NA					384	<4.00	NA	7.10				
2/25/2022	NA	171	0.739	0.125	0.156	50.3	NA					342	<4.00	NA	7.10				
3/3/2022	NA	158	0.531	0.198	0.181	45.9	NA					360	<4.00	NA	6.90				
3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4	NA					323	<4.00	NA	7.20				
3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																	
3/16/2022	NA	145	0.546	0.147	<0.0293	38.1	NA					339	<4.00	NA	7.00				
3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9	NA					297	<4.00	NA	7.20				
3/31/2022	NA	143	0.568	0.164	<0.0293	40.4	NA					275	<4.00	NA	7.10				



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	(mg/l)													%	SU			
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-2	5/26/2020	NA	106	0.341 J	1.920	0.639	120	NA											6.32
	6/30/2020	0.535	115	<0.500	1.13	0.656	111	478	59.6	6.66	102	1,320	1,320	<4.00	NA	6.36			
	8/20/2020	0.603	150	<0.500	1.10	0.439	122	559	73.5	7.46	102	1,700	1,350	<4.00	NA	6.01			
	10/23/2020	NA	107	NA															
	11/24/2020	0.565	180	0.172 J	1.08	0.557	136	841	85.5	12.8	116	1,670	1,450	<4.00	15.4	6.30			
	12/18/2020	NA	153	NA				494	64.9	6.63	98.0	1,410	1,380	<4.00	3.20	6.29			
	12/23/2020	0.621	165	0.179 J	1.11	0.639	126	472	65.7	5.96	101	1,810	1,430	<4.00	0.300	6.27			
	12/30/2020	NA	153	NA															
	1/6/2021	NA	124	NA															
	1/12/2021	NA	141	NA									1,350	<4.00	NA	6.20			
	1/20/2021	NA	133	NA									1,360	<4.00	NA	6.12			
	1/27/2021	NA	140	NA									1,360	<4.00	NA	6.24			
	2/3/2021	NA	178	NA									1,390	<4.00	NA	6.17			
	2/10/2021	NA	133	NA									1,380	<4.00	NA	6.19			
	2/24/2021	NA	146	NA									1,370	<4.00	NA	6.17			
	3/4/2021	NA	166	NA									1,380	<4.00	NA	6.07			
	3/10/2021	NA	175	NA									1,390	<4.00	NA	6.14			
	3/17/2021	NA	163	NA									1,400	<4.00	NA	5.87			
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA					1,420	<4.00	NA	6.50			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.40			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.20			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.10			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.10			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.20			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.30			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.30			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.20			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.50			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.20			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.10			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.50			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.50			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.40			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA					1,120	<4.00	NA	6.40			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.40			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.30			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.40			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.50			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.30			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.40			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.50			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.40			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.40			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.40			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.30			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.40			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.40			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.50			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.50			
	11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.60			
	11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.50			
	11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.60			
	11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.30			
	12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.90			
	12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.30			
	12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.30			
	12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.40			
	12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.30			
	1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.40			
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.20			
	1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.10			
	1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.10			
	2/2/2022		Unable to Sample due to Incimient Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA					1,290	<4.00	NA	6.10			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.20			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.30			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.10			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.20			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA					1,350	<4.00	NA	6.20			
	3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<4.00	NA	6.30			
	3/31/2022	NA	150	<0.100	<0.0391	1.65	106	NA					1,340	<4.00	NA	6.30			



TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY									
Permian EOR - South Hobbs G/SA Unit									
Hobbs, New Mexico									
Well ID	Date	(mg/l)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH MRO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-1	5/26/2020	<0.495	163	<0.943	1.48	<0.910	1.48	22.9	
	6/30/2020	<5.00	648	<2.34	<2.34	<2.34	<2.34	21.9	
	8/20/2020	<5.00	596	2.35	3.18	<2.26	5.53	23.7	
	11/24/2020	<0.495	756	<0.907	<0.838	<0.838	<0.8380	19.1	
	12/18/2020	<0.495	432	<0.909	<0.840	<0.840	<0.840	15.8	
	12/23/2020	<0.495	553	<0.895	1.81 J	<0.827	1.81 J	15.5	
	12/30/2020	<0.495	1,170	<0.917	<0.847	<0.847	<0.847	13.1	
	1/6/2021	<0.495	585	<0.897	<0.829	<0.829	<0.829	12.7	
	1/12/2021	<0.495	731	<0.891	<0.823	<0.823	<0.823	14.6	
	1/20/2021	0.600 J	667	<0.889	<0.821	<0.821	<0.821	17.6	
	1/27/2021	0.800 J	668	<0.909	<0.840	<0.840	<0.840	18.0	
	2/3/2021	<0.495	699	<0.907	<0.838	<0.838	<0.838	20.6	
	2/10/2021	1.20 J	423	1.66 J	<0.828	<0.828	1.66 J	14.1	
	2/24/2021	0.600 J	448	<0.884	<0.817	<0.817	<0.817	18.0	
	3/4/2021	<0.495	515	3.04	1.03 J	<0.846	4.07	18.8	
	3/10/2021	1.20 J	499	<0.878	<0.811	<0.811	<0.811	18.6	
	3/17/2021	<0.495	378	<0.886	<0.819	<0.819	<0.819	19.1	
	3/25/2021	<0.495	333	17.2	1.00 J	<0.867	18.2	20.2	
	3/31/2021	<0.495	526	<0.893	<0.825	<0.825	<0.825	18.4	
	4/8/2021	<0.495	364	2.57 J	1.55 J	<0.867	4.12 J	18.9	
	4/15/2021	<0.495	418	<0.887	<0.887	1.72 J	1.72 J	20.5	
	4/21/2021	<0.495	415	<0.898	2.05 J	<0.867	2.05 J	18.8	
	4/28/2021	<0.495	689	<0.890	1.19 J	<0.859	1.19 J	18.9	
	5/5/2021	<0.495	647	<0.890	<0.890	<0.859	<0.890	18.8	
	5/13/2021	<0.495	259	<0.893	<0.893	<0.862	<0.893	19.0	
	5/19/2021	<0.495	679	<0.893	<0.893	<0.862	<0.893	21.5	
	5/27/2021	<0.495	973	<0.923	<0.923	<0.891	<0.923	20.6	
	6/2/2021	<0.495	619	<0.918	<0.918	<0.886	<0.918	18.1	
	6/10/2021	<0.495	385	<0.915	<0.915	<0.883	<0.915	22.0	
	6/16/2021	<0.495	323	<0.926	<0.926	<0.894	<0.926	18.2	
	6/22/2021	<0.495	250	<0.938	<0.938	<0.905	<0.938	22.1	
	6/30/2021	<0.495	324	<0.923	<0.923	<0.891	<0.923	21.0	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	241	<0.901	<0.901	<0.869	<0.901	18.4	
	7/14/2021	<0.495	295	<0.991	<0.957	<0.991	<0.991	19.0	
	7/20/2021	<0.495	321	<0.938	<0.938	<0.905	<0.938	19.8	
	7/27/2021	<0.495	321	<0.906	<0.906	<0.875	<0.906	22.0	
	8/5/2021	<0.495	196	<0.950	<0.950	<0.917	<0.950	21.9	
	8/11/2021	<0.495	369	<0.932	<0.932	<0.900	<0.932	19.9	
	8/19/2021	<0.495	457	<0.950	<0.950	<0.917	<0.950	20.8	
	8/25/2021	<0.495	477	<0.918	<0.918	<0.886	<0.918	20.0	
	9/2/2021	<0.495	416	<0.935	<0.935	<0.902	<0.935	20.6	
	9/8/2021	<0.495	280	<0.953	<0.953	<0.920	<0.953	21.4	
	9/14/2021	<0.495	289	<0.932	0.978 J	<0.900	0.978 J	19.3	
	9/21/2021	1.00 J	105	<0.918	<0.918	<0.886	<0.918	18.0	
	9/29/2021	<0.495	127	<0.998	<0.998	<0.963	<0.998	18.7	
	10/7/2021	<0.495	143	<0.923	<0.923	<0.891	<0.923	18.0	
	10/13/2021	<0.495	8.85	<0.950	<0.950	<0.917	<0.950	20.7	
	10/21/2021	<0.495	434	<0.918	<0.918	<0.886	<0.918	19.9	
	11/5/2021	<0.495	114	<1.03	<1.03	<0.993	<1.03	22.9	
11/11/2021	<0.495	563	<0.923	<0.923	<0.891	<0.923	19.3		
11/18/2021	<0.495	24.9	1.05 J	<0.969	<0.935	1.05 J	19.0		
11/24/2021	<5.00	159	<4.70	<4.70	<4.70	<4.70	19.7		
12/1/2021	<0.495	39.0	<0.935	<0.935	<0.902	<0.935	19.4		
12/8/2021	<0.495	122	<0.929	<0.929	<0.897	<0.929	18.1		
12/16/2021	<0.495	69.3	<0.962	<0.962	<0.929	<0.962	18.0		
12/22/2021	<0.495	49.5	1.34 J	<0.941	<0.908	1.34 J	21.5		
12/29/2021	<0.495	50.2	<0.935	<0.935	<0.902	<0.935	18.1		
1/6/2022	<0.495	67.0	<0.932	<0.932	<0.900	<0.932	18.0		
1/12/2022	<0.495	130	0.960 J	1.06 J	<0.900	2.02 J	21.7		
1/19/2022	<0.495	56.4	<0.912	<0.912	<0.880	<0.912	18.0		
1/26/2022	<0.495	44.7	<0.898	<0.898	<0.867	<0.898	18.8		
2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8		
2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7		
2/25/2022	<0.495	54.2	<0.923	<0.923	<0.891	<0.923	20.0		
3/3/2022	<0.495	90.5	<0.935	<0.935	<0.902	<0.935	18.2		
3/9/2022	<0.495	40.7	<0.874	<0.874	<0.874	<0.874	18.1		
3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.								
3/16/2022	<0.495	67.6	<0.959	<0.959	<0.959	<0.959	18.1		
3/24/2022	<0.495	37.5	<0.901	<0.901	<0.869	<0.901	18.9		
3/31/2022	<0.495	43.7	<0.926	<0.926	<0.894	<0.926	19.0		



TABLE 3 - GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY									
Permian EOR - South Hobbs G/SA Unit									
Hobbs, New Mexico									
Well ID	Date	(mg/l)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH MRO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-2	5/26/2020	<0.495	923	2.10	1.07 J	<0.900	6.16	23.1	
	6/30/2020	<5.00	1,290	<2.32	<2.32	<2.32	<2.32	22.1	
	8/20/2020	<5.00	1,150	2.75	3.29	<2.26	6.02	23.0	
	11/24/2020	<0.495	1,300	1.73 J	2.17 J	<0.835	3.900	19.1	
	12/18/2020	0.600 J	958	1.34 J	0.915 J	<0.824	2.26 J	15.1	
	12/23/2020	<0.495	1,090	1.61 J	1.12 J	<0.837	2.73	15.6	
	12/30/2020	<0.495	1,090	<0.893	<0.825	<0.825	<0.825	12.1	
	1/6/2021	<0.495	1,240	1.99 J	<0.824	<0.824	1.99 J	13.1	
	1/12/2021	11.2	1,450	1.64 J	<0.833	<0.833	1.64 J	13.9	
	1/20/2021	9.60	1,390	<0.907	<0.838	<0.838	<0.838	18.2	
	1/27/2021	15.0	1,600	1.31 J	<0.834	<0.834	1.31 J	13.4	
	2/3/2021	<0.495	1,030	0.955 J	1.15 J	<0.813	2.11 J	20.9	
	2/10/2021	<0.495	915	2.08	<0.746	<0.746	2.08	11.5	
	2/24/2021	<0.495	793	1.01 J	<0.832	<0.832	1.01 J	19.4	
	3/4/2021	<0.495	1,030	1.74 J	<0.819	<0.819	1.74 J	18.2	
	3/10/2021	<0.495	1,010	<0.893	<0.825	<0.825	<0.825	18.5	
	3/17/2021	<0.495	970	2.33	<0.835	<0.835	2.33	19.5	
	3/25/2021	<0.495	653	1.50 J	1.16 J	<0.857	2.66 J	20.2	
	3/31/2021	<0.495	1,110	<0.941	<0.941	<0.908	<0.941	18.3	
	4/8/2021	<0.495	1,010	2.30 J	1.01 J	<0.875	3.31 J	18.9	
	4/15/2021	<0.495	2,200	2.49 J	0.999 J	1.70 J	5.19	20.1	
	4/21/2021	<0.495	1,230	1.01 J	0.913 J	<0.856	1.92 J	18.9	
	4/28/2021	<0.495	1,100	2.54 J	1.19 J	<0.872	3.73 J	19.0	
	5/5/2021	<0.495	1,350	2.09 J	<0.890	<0.859	2.09 J	18.8	
	5/13/2021	<0.495	1,320	1.18 J	<0.906	<0.875	1.18 J	19.6	
	5/19/2021	<0.495	1,730	1.46 J	<0.901	<0.869	1.46 J	19.8	
	5/27/2021	<0.495	798	<0.920	<0.920	<0.888	<0.920	20.8	
	6/2/2021	<0.495	1,580	2.01 J	<0.895	<0.864	2.01 J	18.1	
	6/10/2021	<0.495	2,010	1.46 J	<0.882	<0.851	1.46 J	22.0	
	6/16/2021	<0.495	810	0.963 J	<0.826	<0.797	0.963 J	18.0	
	6/22/2021	<0.495	795	1.18 J	<0.947	<0.914	1.18 J	22.2	
	6/30/2021	<0.495	975	1.21 J	<0.893	<0.862	1.21 J	20.3	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	889	1.62 J	<0.906	<0.875	1.62 J	18.3	
	7/14/2021	<0.495	1,080	<0.965	<0.965	<0.932	<0.965	19.3	
	7/20/2021	<0.495	1,170	1.16 J	<0.898	<0.867	1.16 J	19.8	
	7/27/2021	<0.495	950	1.03 J	<0.906	<0.875	1.03 J	22.3	
	8/5/2021	<0.495	778	<0.909	<0.909	<0.877	<0.909	22.1	
	8/11/2021	<0.495	1,040	1.46 J	<0.887	<0.856	1.46 J	19.7	
	8/19/2021	<0.495	2,010	1.93 J	<0.959	<0.926	1.93 J	20.7	
	8/25/2021	<0.495	1,400	1.01 J	<0.932	<0.900	1.01 J	19.2	
	9/2/2021	<0.495	1,830	3.03 J	2.11 J	<0.920	5.14	21.4	
	9/8/2021	<0.495	1,570	1.70 J	<0.932	<0.900	1.70 J	20.5	
	9/14/2021	<0.495	1,240	1.93 J	1.01 J	<0.917	2.94 J	19.4	
	9/21/2021	<0.495	1,260	1.33 J	<0.941	<0.908	1.33 J	18.0	
	9/29/2021	<0.495	1,040	1.60 J	<1.19	<1.15	1.60 J	18.5	
	10/7/2021	<0.495	1,020	1.45 J	<0.988	<0.954	1.45 J	18.0	
	10/13/2021	<0.495	834	1.56 J	<0.935	<0.902	1.56 J	20.6	
	10/21/2021	<0.495	2,420	1.64 J	<0.918	<0.886	1.64 J	19.8	
	11/5/2021	<0.495	628	1.39 J	<0.965	<0.932	1.39 J	22.8	
11/11/2021	<0.495	4,500	2.27 J	<0.985	<0.950	2.27 J	18.5		
11/18/2021	<0.495	574	2.56 J	<0.923	<0.891	2.56 J	19.5		
11/24/2021	<5.00	1,500	2.34 J	<4.59	<4.59	2.34 J	19.1		
12/1/2021	<0.495	313	1.69 J	<0.912	<0.880	1.69 J	19.2		
12/8/2021	<0.495	1,260	1.86 J	<0.932	<0.900	1.86 J	18.9		
12/16/2021	<0.495	957	1.15 J	<0.947	<0.914	1.15 J	18.0		
12/22/2021	<0.495	1,020	1.95 J	<0.944	<0.911	1.95 J	21.6		
12/29/2021	<0.495	1,250	1.15 J	<0.935	<0.902	1.15 J	18.0		
1/6/2022	<0.495	1,030	1.31 J	<0.915	<0.883	1.31 J	18.2		
1/12/2022	<0.495	1,450	3.63 J	1.34 J	<1.00	4.97 J	22.0		
1/19/2022	<0.495	1,420	2.83 J	<0.915	<0.883	2.83 J	18.2		
1/26/2022	<0.495	2,020	<0.923	<0.923	<0.891	<0.923	18.8		
2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.								
2/8/2022	<0.495	2,050	1.31 J	<0.909	<0.877	1.31 J	20.7		
2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3		
2/25/2022	<0.495	1,280	1.43 J	<0.965	<0.932	1.43 J	19.9		
3/3/2022	<0.495	2,160	1.86 J	<0.909	<0.877	1.86 J	18.1		
3/9/2022	<0.495	1,680	1.77 J	<0.947	<0.914	1.77 J	18.4		
3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.								
3/16/2022	<0.495	1,700	2.22 J	<0.915	<0.883	2.22 J	18.1		
3/24/2022	<0.495	1,330	1.29 J	<0.909	<0.877	1.29 J	19.1		
3/31/2022	<0.495	1,340	1.28 J	<0.938	<0.905	1.28 J	19.0		

NOTES:
°C - degrees celsius
mg/l - milligrams per liter
NE - not established
J - The target analyte was positively identified below the quantitation limit and above the detection limit.

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well
Hobbs, New Mexico

Well ID	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<17.0	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000
	4/15/2021	1228	1,220	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<6.60	205	<1.70	<2.72	<1.18	50.5	<21.8	3.46	520	550	<1.41	577	195	175,000
	5/27/2021	1245	380	0.664	<0.776	<0.622	1.57	<1.03	1.14	<0.810	<0.793	6,130	3.68	7.07	1.51	2.64	9.98	157	<0.983	13.5	13.5	115	263	<0.819	<3.30	976	301	<1.36	149	86.3	<1.09	<1.07	15.4	4.37	<0.704	12.1	3.70	17,900
	6/2/2021	1220	1,280	<12.8	<15.5	<12.4	<8.26	<20.6	5,480	<16.2	<15.9	317	78.5	241	<22.5	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800
	6/16/2021	1217	2,160	<0.639	<0.776	43.0	<0.413	<1.03	806	<0.810	<0.793	609	17.9	145	<1.12	<0.989	308	1,670	32.2	<0.694	35.6	251	<5.12	<0.819	<3.30	201	<0.851	<1.36	<0.590	29.3	<1.09	<1.07	85.9	58.9	<0.704	88.9	34.4	32,400
	6/22/2021	1240	1,190	<6.39	<7.76	<6.22	<4.13	<10.3	2,440	<8.10	<7.93	347	9.49	78.0	<11.2	<9.89	<8.18	7,510	20.4	<6.94																		

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																							
Permian EOR - Levey Well																																							
Hobbs, New Mexico																																							
Well ID	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction	
Levey Well (cont)	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000	
		0759	Initiate Vacuum Recovery Event																																				
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000	
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000	
		0920	Vacuum Recovery Event Terminated																																				
	1/6/2022	1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000	
		0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000	
		1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
		1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
			0853	Initiate Vacuum Recovery Event																																			
	0919		227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000	
	1004		90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600	
	1021		Vacuum Recovery Event Terminated																																				
	1/19/2022	1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400	
		1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000	
		1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000
		2/2/2022	0921	4,040	5,940	<155	<124	<82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000
			0922	Initiate Vacuum Recovery Event																																			
	0950		337	415	<15.5	<12.4	<8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000	
	1030		56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500	
	1047		Vacuum Recovery Event Terminated																																				
	2/8/2022	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500	
		1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000	
		2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000
		2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000
			1022	Initiate Vacuum Recovery Event																																			
	1043		104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1.96	30,000	
	1118		<29.7	25.9	<7.76	<6.22	<4.13	<10.3	737	<8.10	<7.93	42.2	<8.67	<9.82	<11.2	<9.89	290	610	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	20.3	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	8,510	
	1134		Vacuum Recovery Event Terminated																																				
	2/25/2022	1241	<2.97	<0.639	<0.776	<0.622	1.40	<1.03	1,380	<0.810	<0.793	<2.36	<0.867	<0.982	1.58	1.76	272	1,290	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	7.61	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	13,200	
		1145	250	<0.639	<0.776	21.2	0.413	<1.03	12,400	<0.810	<0.793	4.68	2.41	4.13	<1.12	<0.989	3,740	26,100	2.23	<0.694	<5.11	46.9	<5.12	<0.819	3.50	25.8	<0.851	<1.36	<0.590	9.12	<1.09	<1.07	7.85	6.23	<0.704	8.15	2.49	107,000	
		1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	520	<40.5	<39.6	837	<43.4	<49.1	<56.2	<49.5	220	3,390	<49.2	47.6	<256	<184	<256	766	<165	8,480	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300	
		1406	Initiate Vacuum Recovery Event																																				
		1510	<2.97	1.79	<0.776	<0.622	<0.413	<1.03	305	<0.810	<0.793	7.45	2.05	2.40	<1.12	2.13	182	511	1.12	<0.694	<5.11	10.6	<5.12	<0.819	<3.30	25.6	<0.851	<1.36	<0.590	3.74	<4.66	<1.07	4.96	4.91	<0.704	3.20	1.44	6,440	
	2/28/2022	1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	654	<40.5	<39.6	684	<43.4	<49.1	<56.2	<49.5	263	2,520	<49.2	38.5	<256	<184	<256	<40.9	<165	6,370	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300	
		1526	Vacuum Recovery Event Terminated																																				
		1635	<2.97	1.30	<0.776	<0.622	1.53	<1.03	76.8	<0.810	<0.793	7.50	1.76	2.07	1.28	2.53	64.2	117	1.17	0.847	<5.11	<3.69	<5.12	<0.819	<3.30	40.3	<0.851	<1.36	<0.590	2.26	<1.09	<1.07	4.70	4.25	<0.704	3.42	1.38	2,420	
		3/9/2022	1225	2,260	<128	<268	<124	<82.6	<206	43,400	<162	<159	<471	<173	<196	<225	<198	8,470	41,200	<197	<139	<1,020	737	<1,020	<164	<660	5,330	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	352,000
		0855	<297	110	<77.6	<62.2	<41.3	<103	277,000	<81.0	<79.3	354	<86.7	<98.2	<112	<98.9	33,500	286,000	<98.3	<69.4	<511																		



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12026-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb NM - 03B1417001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
3/8/2022 7:04:11 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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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: Levey Well Hobb NM - 03B1417001

Laboratory Job ID: 880-12026-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Job ID: 880-12026-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-12026-1

Receipt

The sample was received on 3/3/2022 3:54 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-43703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of calcium and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-43884 and analytical batch 860-44012 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12026-1

Date Collected: 03/03/22 09:00

Matrix: Water

Date Received: 03/03/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00462		0.00100	0.000214	mg/L		03/07/22 12:41	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		03/07/22 12:41	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		03/07/22 12:41	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		03/07/22 12:41	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		03/07/22 12:41	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		03/07/22 12:41	1
2-Butanone	0.0180	J	0.0500	0.00270	mg/L		03/07/22 12:41	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		03/07/22 12:41	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		03/07/22 12:41	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		03/07/22 12:41	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		03/07/22 12:41	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		03/07/22 12:41	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		03/07/22 12:41	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		03/07/22 12:41	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		03/07/22 12:41	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		03/07/22 12:41	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		03/07/22 12:41	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		03/07/22 12:41	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		03/07/22 12:41	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		03/07/22 12:41	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		03/07/22 12:41	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		03/07/22 12:41	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		03/07/22 12:41	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		03/07/22 12:41	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		03/07/22 12:41	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		03/07/22 12:41	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		03/07/22 12:41	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		03/07/22 12:41	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		03/07/22 12:41	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		03/07/22 12:41	1
Ethylbenzene	0.0162		0.00100	0.000515	mg/L		03/07/22 12:41	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		03/07/22 12:41	1
Isopropylbenzene	0.00731		0.00100	0.000161	mg/L		03/07/22 12:41	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		03/07/22 12:41	1
m,p-Xylenes	0.0634		0.0100	0.000330	mg/L		03/07/22 12:41	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		03/07/22 12:41	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		03/07/22 12:41	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		03/07/22 12:41	1
N-Propylbenzene	0.00342		0.00100	0.000179	mg/L		03/07/22 12:41	1
o-Xylene	0.00973		0.00100	0.000192	mg/L		03/07/22 12:41	1
p-Cymene (p-Isopropyltoluene)	0.000710	J	0.00100	0.000233	mg/L		03/07/22 12:41	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		03/07/22 12:41	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		03/07/22 12:41	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		03/07/22 12:41	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		03/07/22 12:41	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		03/07/22 12:41	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		03/07/22 12:41	1
Toluene	0.0327		0.00100	0.000500	mg/L		03/07/22 12:41	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		03/07/22 12:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 03/03/22 09:00
Date Received: 03/03/22 15:54

Lab Sample ID: 880-12026-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			03/07/22 12:41	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			03/07/22 12:41	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			03/07/22 12:41	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			03/07/22 12:41	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			03/07/22 12:41	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			03/07/22 12:41	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			03/07/22 12:41	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			03/07/22 12:41	1
1,2,4-Trimethylbenzene	0.0140		0.00100	0.000252	mg/L			03/07/22 12:41	1
1,3,5-Trimethylbenzene	0.00470		0.00100	0.000279	mg/L			03/07/22 12:41	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			03/07/22 12:41	1
Xylenes, Total	0.0731		0.0100	0.000330	mg/L			03/07/22 12:41	1
Total BTEX	0.127		0.0100	0.000214	mg/L			03/07/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124					03/07/22 12:41	1
Dibromofluoromethane (Surr)	102		75 - 131					03/07/22 12:41	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					03/07/22 12:41	1
Toluene-d8 (Surr)	102		80 - 117					03/07/22 12:41	1

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.606		0.500	0.0711	mg/L			03/04/22 20:21	1
Nitrate as N	0.220		0.100	0.0391	mg/L			03/04/22 20:21	1
Chloride	380		0.500	0.200	mg/L			03/04/22 20:21	1
Nitrite as N	0.175		0.100	0.0293	mg/L			03/04/22 20:21	1
Fluoride	1.76		0.500	0.100	mg/L			03/04/22 20:21	1
Sulfate	39.8		0.500	0.109	mg/L			03/04/22 20:21	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		10.0	1.47	mg/L		03/07/22 09:00	03/07/22 15:08	50
Magnesium	78.2		0.200	0.0500	mg/L		03/07/22 09:00	03/07/22 15:01	1
Potassium	7.36		0.500	0.107	mg/L		03/07/22 09:00	03/07/22 15:01	1
Sodium	137		0.500	0.0667	mg/L		03/07/22 09:00	03/07/22 15:01	1
SiO2	71.8		1.07	0.0781	mg/L		03/07/22 09:00	03/07/22 15:01	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-6.76				%			03/08/22 10:20	1
Alkalinity	1190		4.00	4.00	mg/L			03/07/22 12:45	1
Bicarbonate Alkalinity as CaCO3	1190		4.00	4.00	mg/L			03/07/22 12:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/07/22 12:45	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/07/22 12:45	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/07/22 12:45	1
Total Dissolved Solids	2130		20.0	20.0	mg/L			03/07/22 10:32	1
pH	6.3	HF			SU			03/05/22 09:35	1
Temperature	18.1	HF			Celsius			03/05/22 09:35	1

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-21917-H-7 MS	Matrix Spike	98	102	96	100
860-21917-H-7 MSD	Matrix Spike Duplicate	100	103	98	99
880-12026-1	Levey Well	100	102	103	102
LCS 860-43878/3	Lab Control Sample	99	101	96	100
LCSD 860-43878/4	Lab Control Sample Dup	101	102	96	99
MB 860-43878/10	Method Blank	100	104	100	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum

Job ID: 880-12026-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-43878/10

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 10:38	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/07/22 10:38	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/07/22 10:38	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/07/22 10:38	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/07/22 10:38	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/07/22 10:38	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/07/22 10:38	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/07/22 10:38	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/07/22 10:38	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/07/22 10:38	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/07/22 10:38	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/07/22 10:38	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 10:38	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/07/22 10:38	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/07/22 10:38	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/07/22 10:38	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/07/22 10:38	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/07/22 10:38	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/07/22 10:38	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/07/22 10:38	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/07/22 10:38	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 10:38	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/07/22 10:38	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/07/22 10:38	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/07/22 10:38	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/07/22 10:38	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/07/22 10:38	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/07/22 10:38	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/07/22 10:38	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/07/22 10:38	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/07/22 10:38	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 10:38	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/07/22 10:38	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/07/22 10:38	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/07/22 10:38	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/07/22 10:38	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/07/22 10:38	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/07/22 10:38	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/07/22 10:38	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/07/22 10:38	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/07/22 10:38	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 10:38	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/07/22 10:38	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/07/22 10:38	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/07/22 10:38	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/07/22 10:38	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 10:38	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 10:38	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-43878/10

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/07/22 10:38	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/07/22 10:38	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 10:38	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 10:38	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/07/22 10:38	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/07/22 10:38	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/07/22 10:38	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/07/22 10:38	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/07/22 10:38	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/07/22 10:38	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/07/22 10:38	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/07/22 10:38	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/07/22 10:38	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/07/22 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		03/07/22 10:38	1
Dibromofluoromethane (Surr)	104		75 - 131		03/07/22 10:38	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		03/07/22 10:38	1
Toluene-d8 (Surr)	100		80 - 117		03/07/22 10:38	1

Lab Sample ID: LCS 860-43878/3

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05068		mg/L		101	66 - 142
Bromobenzene	0.0500	0.05020		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05010		mg/L		100	60 - 140
Bromodichloromethane	0.0500	0.05260		mg/L		105	75 - 125
Bromoform	0.0500	0.05004		mg/L		100	75 - 125
Bromomethane	0.0500	0.04976		mg/L		100	60 - 140
2-Butanone	0.250	0.2107		mg/L		84	60 - 140
Carbon tetrachloride	0.0500	0.04381		mg/L		88	62 - 125
Chlorobenzene	0.0500	0.05018		mg/L		100	60 - 133
Chloroethane	0.0500	0.04334		mg/L		87	60 - 140
Chloroform	0.0500	0.05039		mg/L		101	70 - 130
Chloromethane	0.0500	0.04763		mg/L		95	60 - 140
2-Chlorotoluene	0.0500	0.05017		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05081		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04948		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04858		mg/L		97	74 - 125
Dibromochloromethane	0.0500	0.04965		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04597		mg/L		92	59 - 125
1,2-Dibromoethane	0.0500	0.04697		mg/L		94	73 - 125
1,2-Dichlorobenzene	0.0500	0.04925		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.05052		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05048		mg/L		101	75 - 125

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-43878/3

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.03597		mg/L		72	70 - 130
1,1-Dichloroethane	0.0500	0.05071		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.04696		mg/L		94	68 - 127
1,1-Dichloroethene	0.0500	0.04366		mg/L		87	59 - 172
1,2-Dichloropropane	0.0500	0.04972		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.04653		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05054		mg/L		101	75 - 125
1,1-Dichloropropene	0.0500	0.04963		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.05047		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04696		mg/L		94	75 - 125
Isopropylbenzene	0.0500	0.04979		mg/L		100	75 - 125
Methylene Chloride	0.0500	0.04190		mg/L		84	75 - 125
m,p-Xylenes	0.0500	0.05007		mg/L		100	75 - 125
MTBE	0.0500	0.04549		mg/L		91	65 - 135
Naphthalene	0.0500	0.04405		mg/L		88	70 - 130
n-Butylbenzene	0.0500	0.04830		mg/L		97	75 - 125
N-Propylbenzene	0.0500	0.05120		mg/L		102	75 - 125
o-Xylene	0.0500	0.05044		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04999		mg/L		100	75 - 125
sec-Butylbenzene	0.0500	0.04899		mg/L		98	75 - 125
Styrene	0.0500	0.04473		mg/L		89	75 - 125
tert-Butylbenzene	0.0500	0.04834		mg/L		97	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04608		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04648		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.04510		mg/L		90	71 - 125
Toluene	0.0500	0.05038		mg/L		101	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04917		mg/L		98	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05048		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04564		mg/L		91	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04753		mg/L		95	75 - 135
1,1,1-Trichloroethane	0.0500	0.05140		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04658		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04758		mg/L		95	62 - 137
Trichlorofluoromethane	0.0500	0.04514		mg/L		90	60 - 140
1,2,3-Trichloropropane	0.0500	0.04500		mg/L		90	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05083		mg/L		102	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05072		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.04195		mg/L		84	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	100		80 - 117

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-43878/4

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05173		mg/L		103	66 - 142	2	25
Bromobenzene	0.0500	0.05075		mg/L		102	75 - 125	1	25
Bromochloromethane	0.0500	0.05140		mg/L		103	60 - 140	3	25
Bromodichloromethane	0.0500	0.05279		mg/L		106	75 - 125	0	25
Bromoform	0.0500	0.05051		mg/L		101	75 - 125	1	25
Bromomethane	0.0500	0.04831		mg/L		97	60 - 140	3	25
2-Butanone	0.250	0.2204		mg/L		88	60 - 140	5	25
Carbon tetrachloride	0.0500	0.04575		mg/L		92	62 - 125	4	25
Chlorobenzene	0.0500	0.05031		mg/L		101	60 - 133	0	25
Chloroethane	0.0500	0.04367		mg/L		87	60 - 140	1	25
Chloroform	0.0500	0.05212		mg/L		104	70 - 130	3	25
Chloromethane	0.0500	0.04971		mg/L		99	60 - 140	4	25
2-Chlorotoluene	0.0500	0.05130		mg/L		103	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05123		mg/L		102	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05005		mg/L		100	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04974		mg/L		99	74 - 125	2	25
Dibromochloromethane	0.0500	0.05076		mg/L		102	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04644		mg/L		93	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04775		mg/L		96	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04955		mg/L		99	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05144		mg/L		103	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05085		mg/L		102	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03673		mg/L		73	70 - 130	2	25
1,1-Dichloroethane	0.0500	0.05178		mg/L		104	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.04816		mg/L		96	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04628		mg/L		93	59 - 172	6	25
1,2-Dichloropropane	0.0500	0.05109		mg/L		102	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04649		mg/L		93	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.05141		mg/L		103	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05180		mg/L		104	75 - 125	4	25
Ethylbenzene	0.0500	0.05169		mg/L		103	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04921		mg/L		98	75 - 125	5	25
Isopropylbenzene	0.0500	0.05115		mg/L		102	75 - 125	3	25
Methylene Chloride	0.0500	0.04325		mg/L		86	75 - 125	3	25
m,p-Xylenes	0.0500	0.05127		mg/L		103	75 - 125	2	25
MTBE	0.0500	0.04695		mg/L		94	65 - 135	3	25
Naphthalene	0.0500	0.04443		mg/L		89	70 - 130	1	25
n-Butylbenzene	0.0500	0.05082		mg/L		102	75 - 125	5	25
N-Propylbenzene	0.0500	0.05234		mg/L		105	75 - 125	2	25
o-Xylene	0.0500	0.05042		mg/L		101	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05210		mg/L		104	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05134		mg/L		103	75 - 125	5	25
Styrene	0.0500	0.04464		mg/L		89	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05091		mg/L		102	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04642		mg/L		93	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04681		mg/L		94	74 - 125	1	25
Tetrachloroethene	0.0500	0.04577		mg/L		92	71 - 125	1	25
Toluene	0.0500	0.05064		mg/L		101	59 - 139	1	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-43878/4

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05100		mg/L		102	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05027		mg/L		101	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.04641		mg/L		93	75 - 137	2	25
1,2,4-Trichlorobenzene	0.0500	0.04856		mg/L		97	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05295		mg/L		106	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04698		mg/L		94	75 - 127	1	25
Trichloroethene	0.0500	0.04995		mg/L		100	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.04667		mg/L		93	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04557		mg/L		91	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05187		mg/L		104	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05233		mg/L		105	60 - 140	3	25
Vinyl chloride	0.0500	0.04343		mg/L		87	60 - 140	3	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-43703/3

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/04/22 11:45	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/04/22 11:45	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/04/22 11:45	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/04/22 11:45	1

Lab Sample ID: MB 860-43703/51

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/04/22 18:57	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/04/22 18:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/04/22 18:57	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/04/22 18:57	1

Lab Sample ID: LCS 860-43703/4

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.825		mg/L		98	90 - 110
Chloride	10.0	10.00		mg/L		100	90 - 110
Fluoride	10.0	10.16		mg/L		102	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-43703/4

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.933		mg/L		99	90 - 110

Lab Sample ID: LCS 860-43703/52

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.809		mg/L		98	90 - 110
Chloride	10.0	9.958		mg/L		100	90 - 110
Fluoride	10.0	10.16		mg/L		102	90 - 110
Sulfate	10.0	9.884		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-43703/5

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.834		mg/L		98	90 - 110	0	20
Chloride	10.0	9.966		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.16		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.914		mg/L		99	90 - 110	0	20

Lab Sample ID: LCSD 860-43703/53

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.809		mg/L		98	90 - 110	0	20
Chloride	10.0	9.955		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.15		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.897		mg/L		99	90 - 110	0	20

Lab Sample ID: MB 860-43704/3

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/04/22 11:45	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/04/22 11:45	1

Lab Sample ID: MB 860-43704/51

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/04/22 18:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/04/22 18:57	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-43704/4

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Nitrate as N	10.0	9.365		mg/L		94	80 - 120	
Nitrite as N	5.00	4.650		mg/L		93	80 - 120	

Lab Sample ID: LCS 860-43704/52

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Nitrate as N	10.0	9.369		mg/L		94	80 - 120	
Nitrite as N	5.00	4.644		mg/L		93	80 - 120	

Lab Sample ID: LCSD 860-43704/5

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Nitrate as N	10.0	9.366		mg/L		94	80 - 120		0	20
Nitrite as N	5.00	4.645		mg/L		93	80 - 120		0	20

Lab Sample ID: LCSD 860-43704/53

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Nitrate as N	10.0	9.363		mg/L		94	80 - 120		0	20
Nitrite as N	5.00	4.642		mg/L		93	80 - 120		0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-43884/1-A

Matrix: Water

Analysis Batch: 44012

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 43884

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.0293	U	0.200	0.0293 mg/L		03/07/22 09:00	03/07/22 13:34	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		03/07/22 09:00	03/07/22 13:34	1
Potassium	<0.107	U	0.500	0.107 mg/L		03/07/22 09:00	03/07/22 13:34	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		03/07/22 09:00	03/07/22 13:34	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		03/07/22 09:00	03/07/22 13:34	1

Lab Sample ID: LCS 860-43884/2-A

Matrix: Water

Analysis Batch: 44012

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 43884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Calcium	25.0	25.70		mg/L		103	85 - 115	
Magnesium	25.0	25.34		mg/L		101	85 - 115	
Potassium	10.0	10.57		mg/L		106	85 - 115	
Sodium	25.0	26.53		mg/L		106	85 - 115	
SiO2	21.4	22.16		mg/L		104	85 - 115	

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCSD 860-43884/3-A

Matrix: Water

Analysis Batch: 44012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 43884

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD
							Limits		Limit
Calcium	25.0	25.66		mg/L		103	85 - 115	0	20
Magnesium	25.0	25.27		mg/L		101	85 - 115	0	20
Potassium	10.0	10.60		mg/L		106	85 - 115	0	20
Sodium	25.0	26.54		mg/L		106	85 - 115	0	20
SiO2	21.4	22.30		mg/L		104	85 - 115	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-44021/3

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			03/07/22 12:11	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/07/22 12:11	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/07/22 12:11	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			03/07/22 12:11	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			03/07/22 12:11	1

Lab Sample ID: LCS 860-44021/4

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Alkalinity	250	265.2		mg/L		106	85 - 115	

Lab Sample ID: LCSD 860-44021/5

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD
							Limits		Limit
Alkalinity	250	268.3		mg/L		107	85 - 115	1	20

Lab Sample ID: 880-12026-1 DU

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Sample		DU Result	DU Qualifier	Unit	D	RPD	Limit
	Result	Qualifier						
Alkalinity	1190		1234		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	1190		1234		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-43926/1

Matrix: Water

Analysis Batch: 43926

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/07/22 10:32	1

Lab Sample ID: LCS 860-43926/2

Matrix: Water

Analysis Batch: 43926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1105		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-43926/3

Matrix: Water

Analysis Batch: 43926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1070		mg/L		107	80 - 120	3	10

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-12026-1 DU

Matrix: Water

Analysis Batch: 43863

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.3	HF	6.3		SU		0.3	20
Temperature	18.1	HF	18.2		Celsius		0.6	20

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 43878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	8260C	
MB 860-43878/10	Method Blank	Total/NA	Water	8260C	
LCS 860-43878/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-43878/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 43703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	300.0	
MB 860-43703/3	Method Blank	Total/NA	Water	300.0	
MB 860-43703/51	Method Blank	Total/NA	Water	300.0	
LCS 860-43703/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-43703/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-43703/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-43703/53	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 43704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	300.0	
MB 860-43704/3	Method Blank	Total/NA	Water	300.0	
MB 860-43704/51	Method Blank	Total/NA	Water	300.0	
LCS 860-43704/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-43704/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-43704/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-43704/53	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 43884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-43884/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-43884/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-43884/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 44012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	43884
880-12026-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	43884
MB 860-43884/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	43884
LCS 860-43884/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	43884
LCSD 860-43884/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	43884

General Chemistry

Analysis Batch: 43863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-12026-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 43926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-43926/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-43926/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-43926/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 44021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-44021/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-44021/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-44021/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-12026-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 44097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12026-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12026-1

Date Collected: 03/03/22 09:00

Matrix: Water

Date Received: 03/03/22 15:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43878	03/07/22 12:41	NA	XEN STF
Total/NA	Analysis	300.0		1	43703	03/04/22 20:21	WP	XEN STF
Total/NA	Analysis	300.0		1	43704	03/04/22 20:21	WP	XEN STF
Total Recoverable	Prep	200.7			43884	03/07/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	44012	03/07/22 15:01	AV	XEN STF
Total Recoverable	Prep	200.7			43884	03/07/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	44012	03/07/22 15:08	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	44097	03/08/22 10:20	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	44021	03/07/22 12:45	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	43926	03/07/22 10:32	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	43863	03/05/22 09:35	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
200.7 Rev 4.4	Metals (ICP)	EPA	XEN STF
SM 1030E	Cation Anion Balance	SM	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
200.7	Preparation, Total Recoverable Metals	EPA	XEN STF
5030C	Purge and Trap	SW846	XEN STF

Protocol References:

- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12026-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12026-1	Levey Well	Water	03/03/22 09:00	03/03/22 15:54

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 12026

www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	210-219-8868	Email:	bjenings@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name:	Levey Well	Hobbs NM	Turn Around
Project Number:	03B1417001		Routine ☐
P.O. Number:	03B1417001		Rush 24 hr
Sampler's Name:	Aaron Marquez		Due Date

SAMPLE RECEIPT	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
	Temperature (°C):	21	Thermometer ID	
	Received In tact:	Yes ☒ No ☐	Correction Factor:	1.00
	Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:	1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	
					VOCs	X
Levey Well	W	3-3-22	0900	-	Anions: F, Cl, SO4, B	
					X	X
					Cations: Ca, K, Mg, Na, Si	
					X	X
					pH	
					X	X
					Alkalinity	
					X	X
					TDS	
					X	X

TAT starts the day received by the lab, if received by 4:30pm	
Sample Comments	24 hr



CUSTODY SEAL
Date 3-3-22
Signature [Signature]

Thermo
SCIENTIFIC

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn					
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U																	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
[Signature]	[Signature]	3/3/22	[Signature]	[Signature]	2
		15:54			4
					6

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12026-1

SDG Number: Hobbs NM

Login Number: 12026

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12026-1

SDG Number: Hobbs NM

Login Number: 12026

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 03/04/22 03:59 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12245-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb NM - 03B1417001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
3/14/2022 6:47:33 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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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: Levey Well Hobb NM - 03B1417001

Laboratory Job ID: 880-12245-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Job ID: 880-12245-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-12245-1

Receipt

The sample was received on 3/9/2022 2:27 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 13.8°C

GC/MS VOA

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.

Metals

Method 200.7: The method blank for preparation batch 860-44591 and analytical batch 860-44700 contained potassium and sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12245-1

Date Collected: 03/09/22 10:10

Matrix: Water

Date Received: 03/09/22 14:27

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00552		0.00100	0.000214	mg/L		03/10/22 18:32	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		03/10/22 18:32	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		03/10/22 18:32	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		03/10/22 18:32	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		03/10/22 18:32	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		03/10/22 18:32	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		03/10/22 18:32	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		03/10/22 18:32	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		03/10/22 18:32	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		03/10/22 18:32	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		03/10/22 18:32	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		03/10/22 18:32	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		03/10/22 18:32	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		03/10/22 18:32	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		03/10/22 18:32	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		03/10/22 18:32	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		03/10/22 18:32	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		03/10/22 18:32	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		03/10/22 18:32	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		03/10/22 18:32	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		03/10/22 18:32	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		03/10/22 18:32	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		03/10/22 18:32	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		03/10/22 18:32	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		03/10/22 18:32	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		03/10/22 18:32	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		03/10/22 18:32	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		03/10/22 18:32	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		03/10/22 18:32	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		03/10/22 18:32	1
Ethylbenzene	0.0204		0.00100	0.000515	mg/L		03/10/22 18:32	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		03/10/22 18:32	1
Isopropylbenzene	0.00966		0.00100	0.000161	mg/L		03/10/22 18:32	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		03/10/22 18:32	1
m,p-Xylenes	0.0768		0.0100	0.000330	mg/L		03/10/22 18:32	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		03/10/22 18:32	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		03/10/22 18:32	1
n-Butylbenzene	0.00169		0.00100	0.000286	mg/L		03/10/22 18:32	1
N-Propylbenzene	0.00484		0.00100	0.000179	mg/L		03/10/22 18:32	1
o-Xylene	0.0124		0.00100	0.000192	mg/L		03/10/22 18:32	1
p-Cymene (p-Isopropyltoluene)	0.00109		0.00100	0.000233	mg/L		03/10/22 18:32	1
sec-Butylbenzene	0.00180		0.00100	0.000199	mg/L		03/10/22 18:32	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		03/10/22 18:32	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		03/10/22 18:32	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		03/10/22 18:32	1
1,1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		03/10/22 18:32	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		03/10/22 18:32	1
Toluene	0.0388		0.00100	0.000500	mg/L		03/10/22 18:32	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		03/10/22 18:32	1

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12245-1

Date Collected: 03/09/22 10:10

Matrix: Water

Date Received: 03/09/22 14:27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/10/22 18:32	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 18:32	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 18:32	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/10/22 18:32	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/10/22 18:32	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/10/22 18:32	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/10/22 18:32	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/10/22 18:32	1
1,2,4-Trimethylbenzene	0.0226		0.00100	0.000252 mg/L			03/10/22 18:32	1
1,3,5-Trimethylbenzene	0.00720		0.00100	0.000279 mg/L			03/10/22 18:32	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/10/22 18:32	1
Xylenes, Total	0.0892		0.0100	0.000330 mg/L			03/10/22 18:32	1
Total BTEX	0.154		0.0100	0.000214 mg/L			03/10/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/10/22 18:32	1
Dibromofluoromethane (Surr)	97		75 - 131		03/10/22 18:32	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		03/10/22 18:32	1
Toluene-d8 (Surr)	100		80 - 117		03/10/22 18:32	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.507		0.500	0.0711 mg/L			03/10/22 18:43	1
Nitrate as N	0.147		0.100	0.0391 mg/L			03/10/22 18:43	1
Chloride	355		0.500	0.200 mg/L			03/10/22 18:43	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/10/22 18:43	1
Fluoride	1.10		0.500	0.100 mg/L			03/10/22 18:43	1
Sulfate	42.6		0.500	0.109 mg/L			03/10/22 18:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	422		10.0	1.47 mg/L		03/11/22 09:00	03/11/22 15:31	50
Magnesium	79.4		10.0	2.50 mg/L		03/11/22 09:00	03/11/22 15:31	50
Potassium	7.55	B	0.500	0.107 mg/L		03/11/22 09:00	03/11/22 15:05	1
Sodium	129	B	0.500	0.0667 mg/L		03/11/22 09:00	03/11/22 15:05	1
SiO2	82.5		1.07	0.0781 mg/L		03/11/22 09:00	03/11/22 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-4.98			%			03/14/22 15:45	1
Alkalinity	1160		4.00	4.00 mg/L			03/11/22 12:26	1
Bicarbonate Alkalinity as CaCO3	1160		4.00	4.00 mg/L			03/11/22 12:26	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/11/22 12:26	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/11/22 12:26	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			03/11/22 12:26	1
Total Dissolved Solids	1820		20.0	20.0 mg/L			03/11/22 10:15	1
pH	6.3	HF		SU			03/11/22 16:04	1
Temperature	18.3	HF		Celsius			03/11/22 16:04	1

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Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-22279-H-1 MS	Matrix Spike	103	98	98	102
880-12245-1	Levey Well	101	97	101	100
LCS 860-44415/1010	Lab Control Sample	98	101	100	101
LCSD 860-44415/11	Lab Control Sample Dup	97	101	98	99
MB 860-44415/18	Method Blank	100	98	101	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum

Job ID: 880-12245-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-44415/18

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 14:06	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/10/22 14:06	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/10/22 14:06	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/10/22 14:06	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/10/22 14:06	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/10/22 14:06	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/10/22 14:06	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/10/22 14:06	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/10/22 14:06	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/10/22 14:06	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/10/22 14:06	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/10/22 14:06	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 14:06	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/10/22 14:06	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/10/22 14:06	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/10/22 14:06	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/10/22 14:06	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/10/22 14:06	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/10/22 14:06	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/10/22 14:06	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/10/22 14:06	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 14:06	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/10/22 14:06	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/10/22 14:06	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/10/22 14:06	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/10/22 14:06	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/10/22 14:06	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/10/22 14:06	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/10/22 14:06	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/10/22 14:06	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/10/22 14:06	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 14:06	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/10/22 14:06	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/10/22 14:06	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/10/22 14:06	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/10/22 14:06	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/10/22 14:06	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/10/22 14:06	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/10/22 14:06	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/10/22 14:06	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/10/22 14:06	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 14:06	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/10/22 14:06	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/10/22 14:06	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/10/22 14:06	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/10/22 14:06	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 14:06	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 14:06	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-44415/18

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/10/22 14:06	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/10/22 14:06	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 14:06	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 14:06	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/10/22 14:06	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/10/22 14:06	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/10/22 14:06	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/10/22 14:06	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/10/22 14:06	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/10/22 14:06	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/10/22 14:06	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/10/22 14:06	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/10/22 14:06	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/10/22 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		03/10/22 14:06	1
Dibromofluoromethane (Surr)	98		75 - 131		03/10/22 14:06	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		03/10/22 14:06	1
Toluene-d8 (Surr)	100		80 - 117		03/10/22 14:06	1

Lab Sample ID: LCS 860-44415/1010

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05450		mg/L		109	66 - 142
Bromobenzene	0.0500	0.05567		mg/L		111	75 - 125
Bromochloromethane	0.0500	0.05473		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.05704		mg/L		114	75 - 125
Bromoform	0.0500	0.04816		mg/L		96	75 - 125
Bromomethane	0.0500	0.05377		mg/L		108	60 - 140
2-Butanone	0.250	0.2535		mg/L		101	60 - 140
Carbon tetrachloride	0.0500	0.05067		mg/L		101	62 - 125
Chlorobenzene	0.0500	0.05542		mg/L		111	60 - 133
Chloroethane	0.0500	0.04940		mg/L		99	60 - 140
Chloroform	0.0500	0.05428		mg/L		109	70 - 130
Chloromethane	0.0500	0.04709		mg/L		94	60 - 140
2-Chlorotoluene	0.0500	0.05514		mg/L		110	73 - 125
4-Chlorotoluene	0.0500	0.05526		mg/L		111	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05422		mg/L		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05658		mg/L		113	74 - 125
Dibromochloromethane	0.0500	0.05053		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05160		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.05580		mg/L		112	73 - 125
1,2-Dichlorobenzene	0.0500	0.05562		mg/L		111	75 - 125
1,3-Dichlorobenzene	0.0500	0.05591		mg/L		112	75 - 125
1,4-Dichlorobenzene	0.0500	0.05523		mg/L		110	75 - 125

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-44415/1010

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.05339		mg/L		107	70 - 130
1,1-Dichloroethane	0.0500	0.05484		mg/L		110	72 - 125
1,2-Dichloroethane	0.0500	0.05341		mg/L		107	68 - 127
1,1-Dichloroethene	0.0500	0.05580		mg/L		112	59 - 172
1,2-Dichloropropane	0.0500	0.05506		mg/L		110	74 - 125
1,3-Dichloropropane	0.0500	0.05438		mg/L		109	75 - 125
2,2-Dichloropropane	0.0500	0.05703		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05579		mg/L		112	75 - 125
Ethylbenzene	0.0500	0.05675		mg/L		114	75 - 125
Hexachlorobutadiene	0.0500	0.05361		mg/L		107	75 - 125
Isopropylbenzene	0.0500	0.05698		mg/L		114	75 - 125
Methylene Chloride	0.0500	0.05243		mg/L		105	75 - 125
m,p-Xylenes	0.0500	0.05635		mg/L		113	75 - 125
MTBE	0.0500	0.05265		mg/L		105	65 - 135
Naphthalene	0.0500	0.05948		mg/L		119	70 - 130
n-Butylbenzene	0.0500	0.05635		mg/L		113	75 - 125
N-Propylbenzene	0.0500	0.05563		mg/L		111	75 - 125
o-Xylene	0.0500	0.05660		mg/L		113	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05714		mg/L		114	75 - 125
sec-Butylbenzene	0.0500	0.05632		mg/L		113	75 - 125
Styrene	0.0500	0.05717		mg/L		114	75 - 125
tert-Butylbenzene	0.0500	0.05636		mg/L		113	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05982		mg/L		120	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05344		mg/L		107	74 - 125
Tetrachloroethene	0.0500	0.05586		mg/L		112	71 - 125
Toluene	0.0500	0.05630		mg/L		113	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05581		mg/L		112	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05664		mg/L		113	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06346		mg/L		127	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05752		mg/L		115	75 - 135
1,1,1-Trichloroethane	0.0500	0.05553		mg/L		111	75 - 125
1,1,2-Trichloroethane	0.0500	0.05402		mg/L		108	75 - 127
Trichloroethene	0.0500	0.05508		mg/L		110	62 - 137
Trichlorofluoromethane	0.0500	0.05485		mg/L		110	60 - 140
1,2,3-Trichloropropane	0.0500	0.05295		mg/L		106	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05573		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05580		mg/L		112	60 - 140
Vinyl chloride	0.0500	0.05181		mg/L		104	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	101		80 - 117

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-44415/11

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05231		mg/L		105	66 - 142	4	25
Bromobenzene	0.0500	0.05149		mg/L		103	75 - 125	8	25
Bromochloromethane	0.0500	0.05378		mg/L		108	60 - 140	2	25
Bromodichloromethane	0.0500	0.05501		mg/L		110	75 - 125	4	25
Bromoform	0.0500	0.04709		mg/L		94	75 - 125	2	25
Bromomethane	0.0500	0.05645		mg/L		113	60 - 140	5	25
2-Butanone	0.250	0.2500		mg/L		100	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04974		mg/L		99	62 - 125	2	25
Chlorobenzene	0.0500	0.05228		mg/L		105	60 - 133	6	25
Chloroethane	0.0500	0.04838		mg/L		97	60 - 140	2	25
Chloroform	0.0500	0.05297		mg/L		106	70 - 130	2	25
Chloromethane	0.0500	0.04957		mg/L		99	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05070		mg/L		101	73 - 125	8	25
4-Chlorotoluene	0.0500	0.05090		mg/L		102	74 - 125	8	25
cis-1,2-Dichloroethene	0.0500	0.05324		mg/L		106	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05465		mg/L		109	74 - 125	3	25
Dibromochloromethane	0.0500	0.04854		mg/L		97	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04745		mg/L		95	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05277		mg/L		106	73 - 125	6	25
1,2-Dichlorobenzene	0.0500	0.05130		mg/L		103	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05116		mg/L		102	75 - 125	9	25
1,4-Dichlorobenzene	0.0500	0.05069		mg/L		101	75 - 125	9	25
Dichlorodifluoromethane	0.0500	0.05289		mg/L		106	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.05384		mg/L		108	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05204		mg/L		104	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05436		mg/L		109	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.05314		mg/L		106	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05168		mg/L		103	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05502		mg/L		110	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05410		mg/L		108	75 - 125	3	25
Ethylbenzene	0.0500	0.05336		mg/L		107	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04925		mg/L		98	75 - 125	8	25
Isopropylbenzene	0.0500	0.05386		mg/L		108	75 - 125	6	25
Methylene Chloride	0.0500	0.05101		mg/L		102	75 - 125	3	25
m,p-Xylenes	0.0500	0.05344		mg/L		107	75 - 125	5	25
MTBE	0.0500	0.05170		mg/L		103	65 - 135	2	25
Naphthalene	0.0500	0.05136		mg/L		103	70 - 130	15	25
n-Butylbenzene	0.0500	0.05211		mg/L		104	75 - 125	8	25
N-Propylbenzene	0.0500	0.05122		mg/L		102	75 - 125	8	25
o-Xylene	0.0500	0.05340		mg/L		107	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05234		mg/L		105	75 - 125	9	25
sec-Butylbenzene	0.0500	0.05203		mg/L		104	75 - 125	8	25
Styrene	0.0500	0.05445		mg/L		109	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05154		mg/L		103	75 - 125	9	25
1,1,1,2-Tetrachloroethane	0.0500	0.05664		mg/L		113	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.04952		mg/L		99	74 - 125	8	25
Tetrachloroethene	0.0500	0.05242		mg/L		105	71 - 125	6	25
Toluene	0.0500	0.05278		mg/L		106	59 - 139	6	25

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-44415/11

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05458		mg/L		109	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05415		mg/L		108	66 - 125	5	25
1,2,3-Trichlorobenzene	0.0500	0.05245		mg/L		105	75 - 137	19	25
1,2,4-Trichlorobenzene	0.0500	0.05151		mg/L		103	75 - 135	11	25
1,1,1-Trichloroethane	0.0500	0.05383		mg/L		108	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.05158		mg/L		103	75 - 127	5	25
Trichloroethene	0.0500	0.05303		mg/L		106	62 - 137	4	25
Trichlorofluoromethane	0.0500	0.05308		mg/L		106	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04918		mg/L		98	75 - 125	7	25
1,2,4-Trimethylbenzene	0.0500	0.05130		mg/L		103	75 - 125	8	25
1,3,5-Trimethylbenzene	0.0500	0.05131		mg/L		103	60 - 140	8	25
Vinyl chloride	0.0500	0.05122		mg/L		102	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-44481/3

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/10/22 12:41	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/10/22 12:41	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/10/22 12:41	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/10/22 12:41	1

Lab Sample ID: LCS 860-44481/4

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.725		mg/L		97	90 - 110
Chloride	10.0	9.654		mg/L		97	90 - 110
Fluoride	10.0	10.48		mg/L		105	90 - 110
Sulfate	10.0	10.09		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-44481/5

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.721		mg/L		97	90 - 110	0	20
Chloride	10.0	9.574		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.47		mg/L		105	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-44481/5

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.06		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 860-44482/3

Matrix: Water

Analysis Batch: 44482

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/10/22 12:41	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/10/22 12:41	1

Lab Sample ID: LCS 860-44482/4

Matrix: Water

Analysis Batch: 44482

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.353		mg/L		94	80 - 120
Nitrite as N	5.00	4.917		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-44482/5

Matrix: Water

Analysis Batch: 44482

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.369		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.926		mg/L		99	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-44591/1-A

Matrix: Water

Analysis Batch: 44700

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 44591

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		03/11/22 09:00	03/11/22 14:33	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		03/11/22 09:00	03/11/22 14:33	1
Potassium	0.1387	J	0.500	0.107 mg/L		03/11/22 09:00	03/11/22 14:33	1
Sodium	0.1538	J	0.500	0.0667 mg/L		03/11/22 09:00	03/11/22 14:33	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		03/11/22 09:00	03/11/22 14:33	1

Lab Sample ID: LCS 860-44591/2-A

Matrix: Water

Analysis Batch: 44700

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 44591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.51		mg/L		102	85 - 115
Magnesium	25.0	25.29		mg/L		101	85 - 115
Potassium	10.0	10.39		mg/L		104	85 - 115
Sodium	25.0	25.94		mg/L		104	85 - 115
SiO2	21.4	20.77		mg/L		97	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-44591/3-A

Matrix: Water

Analysis Batch: 44700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 44591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limits
							Limits		
Calcium	25.0	25.64		mg/L		103	85 - 115	1	20
Magnesium	25.0	25.44		mg/L		102	85 - 115	1	20
Potassium	10.0	10.43		mg/L		104	85 - 115	0	20
Sodium	25.0	26.09		mg/L		104	85 - 115	1	20
SiO2	21.4	21.18		mg/L		99	85 - 115	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-44726/3

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			03/11/22 11:51	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/11/22 11:51	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			03/11/22 11:51	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			03/11/22 11:51	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			03/11/22 11:51	1

Lab Sample ID: LCS 860-44726/4

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Limits	
Alkalinity	250	268.3		mg/L		107	85 - 115	

Lab Sample ID: LCSD 860-44726/5

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Alkalinity	250	272.3		mg/L		109	85 - 115	1	20

Lab Sample ID: 880-12245-1 DU

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Sample		DU Result	DU Qualifier	Unit	D	RPD	Limit
	Result	Qualifier						
Alkalinity	1160		1187		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	1160		1187		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-44649/1					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 44649									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/11/22 10:15	1	

Lab Sample ID: LCS 860-44649/2					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 44649									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids	1000	1021		mg/L		102	80 - 120		

Lab Sample ID: LCSD 860-44649/3					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 44649									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	981.0		mg/L		98	80 - 120	4	10

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 44415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	8260C	
MB 860-44415/18	Method Blank	Total/NA	Water	8260C	
LCS 860-44415/1010	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-44415/11	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 44481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	300.0	
MB 860-44481/3	Method Blank	Total/NA	Water	300.0	
LCS 860-44481/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-44481/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 44482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	300.0	
MB 860-44482/3	Method Blank	Total/NA	Water	300.0	
LCS 860-44482/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-44482/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 44591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-44591/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-44591/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-44591/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 44700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	44591
880-12245-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	44591
MB 860-44591/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	44591
LCS 860-44591/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	44591
LCSD 860-44591/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	44591

General Chemistry

Analysis Batch: 44649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-44649/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-44649/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-44649/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 44705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 44726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-44726/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-44726/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-44726/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-12245-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 44890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12245-1	Levey Well	Total/NA	Water	SM 1030E	

- 1
- 2
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- 8
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- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12245-1

Date Collected: 03/09/22 10:10

Matrix: Water

Date Received: 03/09/22 14:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	44415	03/10/22 18:32	EM	XEN STF
Total/NA	Analysis	300.0		1	44481	03/10/22 18:43	WP	XEN STF
Total/NA	Analysis	300.0		1	44482	03/10/22 18:43	WP	XEN STF
Total Recoverable	Prep	200.7			44591	03/11/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	44700	03/11/22 15:05	AV	XEN STF
Total Recoverable	Prep	200.7			44591	03/11/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	44700	03/11/22 15:31	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	44890	03/14/22 15:45	DP	XEN STF
Total/NA	Analysis	SM 2320B		1	44726	03/11/22 12:26	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	44649	03/11/22 10:15	YGG	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	44705	03/11/22 16:04	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
200.7 Rev 4.4	Metals (ICP)	EPA	XEN STF
SM 1030E	Cation Anion Balance	SM	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
200.7	Preparation, Total Recoverable Metals	EPA	XEN STF
5030C	Purge and Trap	SW846	XEN STF

Protocol References:

- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12245-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12245-1	Levey Well	Water	03/09/22 10:10	03/09/22 14:27

- 1
- 2
- 3
- 4
- 5
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- 13
- 14



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0900 Atlanta GA (770) 449-8800 Tampa FL (813) 575-382-7550

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

www.xenco.com Page 1 of 1

Work Order No: 1245

Project Manager:		Beaux Jennings	Bill to, (if different)	
Company Name:		Ensolum LLC	Company Name:	
Address:		705 W Wadley #240	Address:	
City, State ZIP:		Midland TX	City, State ZIP:	
Phone:	432-230-3344		Email:	bjennings@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ IIRRP ☐ Level IV ☐	
Deliverables EDD ☐	ADAPT ☐ Other ☐

Project Name:	Levey Well	Hobbs NM	ANALYSIS REQUEST					Work Order Notes
Project Number:	03B1417001	Routine ☐						
P.O. Number:	03B1417001	Rush 24 Hr						
Sampler's Name:	Shane Diller	Due Date						

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	139/138	Thermometer ID					
Received intact:	Yes No	IPB					
Cooler Custody Seals:	Yes No	Correction Factor:			-1		
Sample Custody Seals:	Yes No N/A	Total Containers:					

Number of Containers

F, Cl, SO4, B

Ca, K, Mg, Na, Si

880-12245 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

[illegible]

A graph on a grid showing a line passing through points (0, 3), (1, 2), and (2, 1). The line is labeled with the equation $y = -x + 3$.

CUSTODY SEAL
Date 3-8-22
Signature [Signature]

Thermo SCIENTIFIC

[illegible]

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		3/9/22			
		14:27			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12245-1

SDG Number: Hobbs NM

Login Number: 12245

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12245-1

SDG Number: Hobbs NM

Login Number: 12245

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/10/22 04:07 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12512-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb NM - 03B1417001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
3/23/2022 9:36:00 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.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: Levey Well Hobb NM - 03B1417001

Laboratory Job ID: 880-12512-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-12512-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Midland

Case Narrative

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Job ID: 880-12512-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-12512-1

Receipt

The sample was received on 3/16/2022 3:51 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.2°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-45447 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-45381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

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

General Chemistry

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

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12512-1

Date Collected: 03/16/22 08:16

Matrix: Water

Date Received: 03/16/22 15:51

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00293		0.00100	0.000214	mg/L		03/18/22 11:12	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		03/18/22 11:12	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		03/18/22 11:12	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		03/18/22 11:12	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		03/18/22 11:12	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		03/18/22 11:12	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		03/18/22 11:12	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		03/18/22 11:12	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		03/18/22 11:12	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		03/18/22 11:12	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		03/18/22 11:12	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		03/18/22 11:12	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		03/18/22 11:12	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		03/18/22 11:12	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		03/18/22 11:12	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		03/18/22 11:12	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		03/18/22 11:12	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		03/18/22 11:12	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		03/18/22 11:12	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		03/18/22 11:12	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		03/18/22 11:12	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		03/18/22 11:12	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		03/18/22 11:12	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		03/18/22 11:12	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		03/18/22 11:12	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		03/18/22 11:12	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		03/18/22 11:12	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		03/18/22 11:12	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		03/18/22 11:12	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		03/18/22 11:12	1
Ethylbenzene	0.0106		0.00100	0.000515	mg/L		03/18/22 11:12	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		03/18/22 11:12	1
Isopropylbenzene	0.00477		0.00100	0.000161	mg/L		03/18/22 11:12	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		03/18/22 11:12	1
m,p-Xylenes	0.0409		0.0100	0.000330	mg/L		03/18/22 11:12	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		03/18/22 11:12	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		03/18/22 11:12	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		03/18/22 11:12	1
N-Propylbenzene	0.00238		0.00100	0.000179	mg/L		03/18/22 11:12	1
o-Xylene	0.00619		0.00100	0.000192	mg/L		03/18/22 11:12	1
p-Cymene (p-Isopropyltoluene)	0.000550	J	0.00100	0.000233	mg/L		03/18/22 11:12	1
sec-Butylbenzene	0.000916	J	0.00100	0.000199	mg/L		03/18/22 11:12	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		03/18/22 11:12	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		03/18/22 11:12	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		03/18/22 11:12	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		03/18/22 11:12	1
Tetrachloroethene	0.00174		0.00100	0.000500	mg/L		03/18/22 11:12	1
Toluene	0.0227		0.00100	0.000500	mg/L		03/18/22 11:12	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		03/18/22 11:12	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12512-1

Date Collected: 03/16/22 08:16

Matrix: Water

Date Received: 03/16/22 15:51

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/18/22 11:12	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:12	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:12	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/18/22 11:12	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/18/22 11:12	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/18/22 11:12	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/18/22 11:12	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/18/22 11:12	1
1,2,4-Trimethylbenzene	0.0114		0.00100	0.000252 mg/L			03/18/22 11:12	1
1,3,5-Trimethylbenzene	0.00388		0.00100	0.000279 mg/L			03/18/22 11:12	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/18/22 11:12	1
Xylenes, Total	0.0471		0.0100	0.000330 mg/L			03/18/22 11:12	1
Total BTEX	0.0833		0.0100	0.000214 mg/L			03/18/22 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		03/18/22 11:12	1
Dibromofluoromethane (Surr)	99		75 - 131		03/18/22 11:12	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 144		03/18/22 11:12	1
Toluene-d8 (Surr)	100		80 - 117		03/18/22 11:12	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.380	J	0.500	0.0711 mg/L			03/17/22 22:47	1
Nitrate as N	0.208		0.100	0.0391 mg/L			03/17/22 22:47	1
Chloride	229		0.500	0.200 mg/L			03/17/22 22:47	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/17/22 22:47	1
Fluoride	0.464	J	0.500	0.100 mg/L			03/17/22 22:47	1
Sulfate	42.2		0.500	0.109 mg/L			03/17/22 22:47	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	258		10.0	1.47 mg/L		03/18/22 07:16	03/18/22 16:02	50
Magnesium	55.9		0.200	0.0500 mg/L		03/18/22 07:16	03/18/22 14:25	1
Potassium	4.48		0.500	0.107 mg/L		03/18/22 07:16	03/18/22 14:25	1
Sodium	85.6	B	25.0	3.33 mg/L		03/18/22 07:16	03/18/22 16:02	50
SiO2	72.1		1.07	0.0781 mg/L		03/18/22 07:16	03/18/22 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-4.29			%			03/23/22 20:07	1
Alkalinity	673		4.00	4.00 mg/L			03/18/22 12:47	1
Bicarbonate Alkalinity as CaCO3	673		4.00	4.00 mg/L			03/18/22 12:47	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/18/22 12:47	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/18/22 12:47	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			03/18/22 12:47	1
Total Dissolved Solids	1190		10.0	10.0 mg/L			03/17/22 17:43	1
pH	6.4	HF		SU			03/17/22 18:15	1
Temperature	18.1	HF		Celsius			03/17/22 18:15	1

Eurofins Midland

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-12511-D-2 MS	Matrix Spike	97	98	92	99
880-12512-1	Levey Well	97	99	93	100
LCS 860-45447/3	Lab Control Sample	96	98	89	97
LCSD 860-45447/4	Lab Control Sample Dup	95	99	89	97
MB 860-45447/10	Method Blank	96	100	92	97
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum

Job ID: 880-12512-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-45447/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45447

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/18/22 10:10	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/18/22 10:10	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/18/22 10:10	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/18/22 10:10	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/18/22 10:10	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/18/22 10:10	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/18/22 10:10	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/18/22 10:10	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/18/22 10:10	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/18/22 10:10	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/18/22 10:10	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/18/22 10:10	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/18/22 10:10	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/18/22 10:10	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/18/22 10:10	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/18/22 10:10	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/18/22 10:10	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/18/22 10:10	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/18/22 10:10	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/18/22 10:10	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/18/22 10:10	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 10:10	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/18/22 10:10	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/18/22 10:10	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/18/22 10:10	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/18/22 10:10	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/18/22 10:10	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/18/22 10:10	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/18/22 10:10	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/18/22 10:10	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/18/22 10:10	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 10:10	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/18/22 10:10	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/18/22 10:10	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 10:10	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/18/22 10:10	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/18/22 10:10	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/18/22 10:10	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/18/22 10:10	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/18/22 10:10	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/18/22 10:10	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 10:10	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/18/22 10:10	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/18/22 10:10	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/18/22 10:10	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/18/22 10:10	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 10:10	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 10:10	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-45447/10

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/18/22 10:10	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/18/22 10:10	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 10:10	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 10:10	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/18/22 10:10	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/18/22 10:10	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/18/22 10:10	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/18/22 10:10	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/18/22 10:10	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/18/22 10:10	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/18/22 10:10	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/18/22 10:10	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 10:10	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/18/22 10:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124				03/18/22 10:10	1
Dibromofluoromethane (Surr)	100		75 - 131				03/18/22 10:10	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 144				03/18/22 10:10	1
Toluene-d8 (Surr)	97		80 - 117				03/18/22 10:10	1

Lab Sample ID: LCS 860-45447/3

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05336		mg/L		107	66 - 142
Bromobenzene	0.0500	0.05256		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05191		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05317		mg/L		106	75 - 125
Bromoform	0.0500	0.05574		mg/L		111	75 - 125
Bromomethane	0.0500	0.05435		mg/L		109	60 - 140
2-Butanone	0.250	0.2187		mg/L		87	60 - 140
Carbon tetrachloride	0.0500	0.04421		mg/L		88	62 - 125
Chlorobenzene	0.0500	0.05267		mg/L		105	60 - 133
Chloroethane	0.0500	0.04281		mg/L		86	60 - 140
Chloroform	0.0500	0.05050		mg/L		101	70 - 130
Chloromethane	0.0500	0.05252		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.05075		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05139		mg/L		103	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04918		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04972		mg/L		99	74 - 125
Dibromochloromethane	0.0500	0.05362		mg/L		107	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04903		mg/L		98	59 - 125
1,2-Dibromoethane	0.0500	0.05011		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05166		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05288		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05278		mg/L		106	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-12512-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-45447/3

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.03728		mg/L		75	70 - 130
1,1-Dichloroethane	0.0500	0.05131		mg/L		103	72 - 125
1,2-Dichloroethane	0.0500	0.04629		mg/L		93	68 - 127
1,1-Dichloroethene	0.0500	0.04708		mg/L		94	59 - 172
1,2-Dichloropropane	0.0500	0.05199		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.04844		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04977		mg/L		100	75 - 125
1,1-Dichloropropene	0.0500	0.04969		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.05175		mg/L		103	75 - 125
Hexachlorobutadiene	0.0500	0.05048		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.05096		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.04366		mg/L		87	75 - 125
m,p-Xylenes	0.0500	0.05176		mg/L		104	75 - 125
MTBE	0.0500	0.04781		mg/L		96	65 - 135
Naphthalene	0.0500	0.04803		mg/L		96	70 - 130
n-Butylbenzene	0.0500	0.04810		mg/L		96	75 - 125
N-Propylbenzene	0.0500	0.05094		mg/L		102	75 - 125
o-Xylene	0.0500	0.05157		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05130		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.05008		mg/L		100	75 - 125
Styrene	0.0500	0.04600		mg/L		92	75 - 125
tert-Butylbenzene	0.0500	0.04968		mg/L		99	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04868		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04939		mg/L		99	74 - 125
Tetrachloroethene	0.0500	0.04768		mg/L		95	71 - 125
Toluene	0.0500	0.05199		mg/L		104	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05154		mg/L		103	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05177		mg/L		104	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04920		mg/L		98	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05045		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.05081		mg/L		102	75 - 125
1,1,2-Trichloroethane	0.0500	0.05007		mg/L		100	75 - 127
Trichloroethene	0.0500	0.05125		mg/L		102	62 - 137
Trichlorofluoromethane	0.0500	0.04635		mg/L		93	60 - 140
1,2,3-Trichloropropane	0.0500	0.04984		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05200		mg/L		104	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05162		mg/L		103	60 - 140
Vinyl chloride	0.0500	0.04358		mg/L		87	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	89		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-45447/4

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05482		mg/L		110	66 - 142	3	25
Bromobenzene	0.0500	0.05332		mg/L		107	75 - 125	1	25
Bromochloromethane	0.0500	0.05392		mg/L		108	60 - 140	4	25
Bromodichloromethane	0.0500	0.05496		mg/L		110	75 - 125	3	25
Bromoform	0.0500	0.05529		mg/L		111	75 - 125	1	25
Bromomethane	0.0500	0.05813		mg/L		116	60 - 140	7	25
2-Butanone	0.250	0.2212		mg/L		88	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04730		mg/L		95	62 - 125	7	25
Chlorobenzene	0.0500	0.05302		mg/L		106	60 - 133	1	25
Chloroethane	0.0500	0.04541		mg/L		91	60 - 140	6	25
Chloroform	0.0500	0.05234		mg/L		105	70 - 130	4	25
Chloromethane	0.0500	0.05570		mg/L		111	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05225		mg/L		105	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05239		mg/L		105	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05147		mg/L		103	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05058		mg/L		101	74 - 125	2	25
Dibromochloromethane	0.0500	0.05369		mg/L		107	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04847		mg/L		97	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05060		mg/L		101	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05233		mg/L		105	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05378		mg/L		108	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05341		mg/L		107	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04064		mg/L		81	70 - 130	9	25
1,1-Dichloroethane	0.0500	0.05380		mg/L		108	72 - 125	5	25
1,2-Dichloroethane	0.0500	0.04769		mg/L		95	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05029		mg/L		101	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.05268		mg/L		105	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04919		mg/L		98	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05196		mg/L		104	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05346		mg/L		107	75 - 125	7	25
Ethylbenzene	0.0500	0.05365		mg/L		107	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05497		mg/L		110	75 - 125	9	25
Isopropylbenzene	0.0500	0.05406		mg/L		108	75 - 125	6	25
Methylene Chloride	0.0500	0.04588		mg/L		92	75 - 125	5	25
m,p-Xylenes	0.0500	0.05362		mg/L		107	75 - 125	4	25
MTBE	0.0500	0.05037		mg/L		101	65 - 135	5	25
Naphthalene	0.0500	0.04873		mg/L		97	70 - 130	1	25
n-Butylbenzene	0.0500	0.05181		mg/L		104	75 - 125	7	25
N-Propylbenzene	0.0500	0.05280		mg/L		106	75 - 125	4	25
o-Xylene	0.0500	0.05316		mg/L		106	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05432		mg/L		109	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05333		mg/L		107	75 - 125	6	25
Styrene	0.0500	0.04681		mg/L		94	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05264		mg/L		105	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04888		mg/L		98	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04726		mg/L		95	74 - 125	4	25
Tetrachloroethene	0.0500	0.05048		mg/L		101	71 - 125	6	25
Toluene	0.0500	0.05351		mg/L		107	59 - 139	3	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-45447/4

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05619		mg/L		112	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.05266		mg/L		105	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05124		mg/L		102	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05216		mg/L		104	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.05326		mg/L		107	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.05062		mg/L		101	75 - 127	1	25
Trichloroethene	0.0500	0.05438		mg/L		109	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.05067		mg/L		101	60 - 140	9	25
1,2,3-Trichloropropane	0.0500	0.04731		mg/L		95	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05351		mg/L		107	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05408		mg/L		108	60 - 140	5	25
Vinyl chloride	0.0500	0.04565		mg/L		91	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	89		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-45381/3

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/17/22 15:56	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/17/22 15:56	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/17/22 15:56	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/17/22 15:56	1

Lab Sample ID: MB 860-45381/45

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/17/22 23:55	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/17/22 23:55	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/17/22 23:55	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/17/22 23:55	1

Lab Sample ID: LCS 860-45381/46

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.477		mg/L		95	90 - 110
Chloride	10.0	9.426		mg/L		94	90 - 110
Fluoride	10.0	10.63		mg/L		106	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-45381/46

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.07		mg/L		101	90 - 110

Lab Sample ID: LCS 860-45381/6

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.451		mg/L		95	90 - 110
Chloride	10.0	9.390		mg/L		94	90 - 110
Fluoride	10.0	10.60		mg/L		106	90 - 110
Sulfate	10.0	10.08		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-45381/47

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.534		mg/L		95	90 - 110	1	20
Chloride	10.0	9.549		mg/L		95	90 - 110	1	20
Fluoride	10.0	10.74		mg/L		107	90 - 110	1	20
Sulfate	10.0	10.14		mg/L		101	90 - 110	1	20

Lab Sample ID: LCSD 860-45381/7

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.480		mg/L		95	90 - 110	0	20
Chloride	10.0	9.491		mg/L		95	90 - 110	1	20
Fluoride	10.0	10.66		mg/L		107	90 - 110	1	20
Sulfate	10.0	10.12		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-45381/5

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	0.500	0.3902	J	mg/L		78	50 - 150
Chloride	0.500	0.7106		mg/L		142	50 - 150
Fluoride	0.500	0.3471	J	mg/L		69	50 - 150
Sulfate	0.500	0.4878	J	mg/L		98	50 - 150

Lab Sample ID: MB 860-45382/3

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/17/22 15:56	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/17/22 15:56	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-45382/45

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/17/22 23:55	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/17/22 23:55	1

Lab Sample ID: LCS 860-45382/46

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.471		mg/L		95	80 - 120
Nitrite as N	5.00	4.678		mg/L		94	80 - 120

Lab Sample ID: LCS 860-45382/6

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.428		mg/L		94	80 - 120
Nitrite as N	5.00	4.668		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-45382/47

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.396		mg/L		94	80 - 120	1	20
Nitrite as N	5.00	4.837		mg/L		97	80 - 120	3	20

Lab Sample ID: LCSD 860-45382/7

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.358		mg/L		94	80 - 120	1	20
Nitrite as N	5.00	4.843		mg/L		97	80 - 120	4	20

Lab Sample ID: LLCS 860-45382/5

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.4308		mg/L		86	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-45452/1-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0293	U	0.200	0.0293 mg/L		03/18/22 07:16	03/18/22 13:49	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 860-45452/1-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.0500	U	0.200	0.0500 mg/L		03/18/22 07:16	03/18/22 13:49	1
Potassium	<0.107	U	0.500	0.107 mg/L		03/18/22 07:16	03/18/22 13:49	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		03/18/22 07:16	03/18/22 13:49	1

Lab Sample ID: MB 860-45452/1-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.07572	J	0.500	0.0667 mg/L		03/18/22 07:16	03/18/22 15:36	1

Lab Sample ID: LCS 860-45452/2-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.04		mg/L		100	85 - 115
Magnesium	25.0	24.83		mg/L		99	85 - 115
Potassium	10.0	10.24		mg/L		102	85 - 115
SiO2	21.4	21.61		mg/L		101	85 - 115

Lab Sample ID: LCS 860-45452/2-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	25.0	25.12		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-45452/3-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	25.0	25.01		mg/L		100	85 - 115	0	20
Magnesium	25.0	24.80		mg/L		99	85 - 115	0	20
Potassium	10.0	10.30		mg/L		103	85 - 115	1	20
SiO2	21.4	21.77		mg/L		102	85 - 115	1	20

Lab Sample ID: LCSD 860-45452/3-A

Matrix: Water

Analysis Batch: 45556

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 45452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	25.0	25.12		mg/L		100	85 - 115	0	20

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-45561/3

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	mg/L			03/18/22 11:42	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			03/18/22 11:42	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			03/18/22 11:42	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			03/18/22 11:42	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			03/18/22 11:42	1

Lab Sample ID: LCS 860-45561/4

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	255.1		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-45561/5

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	257.0		mg/L		103	85 - 115	1	20

Lab Sample ID: LLCS 860-45561/31

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	50.0	57.42		mg/L		115	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-45423/1

Matrix: Water

Analysis Batch: 45423

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	mg/L			03/17/22 17:43	1

Lab Sample ID: LCS 860-45423/2

Matrix: Water

Analysis Batch: 45423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1121		mg/L		112	80 - 120

Lab Sample ID: LCSD 860-45423/3

Matrix: Water

Analysis Batch: 45423

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1064		mg/L		106	80 - 120	5	10

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 45447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	8260C	
MB 860-45447/10	Method Blank	Total/NA	Water	8260C	
LCS 860-45447/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-45447/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 45381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	300.0	
MB 860-45381/3	Method Blank	Total/NA	Water	300.0	
MB 860-45381/45	Method Blank	Total/NA	Water	300.0	
LCS 860-45381/46	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-45381/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-45381/47	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-45381/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-45381/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 45382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	300.0	
MB 860-45382/3	Method Blank	Total/NA	Water	300.0	
MB 860-45382/45	Method Blank	Total/NA	Water	300.0	
LCS 860-45382/46	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-45382/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-45382/47	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-45382/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-45382/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 45452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-45452/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-45452/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-45452/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 45556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	45452
880-12512-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	45452
MB 860-45452/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	45452
MB 860-45452/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	45452
LCS 860-45452/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	45452
LCS 860-45452/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	45452
LCSD 860-45452/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	45452
LCSD 860-45452/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	45452

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 45423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-45423/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-45423/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-45423/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 45434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 45561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-45561/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-45561/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-45561/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-45561/31	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 46181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12512-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12512-1

Date Collected: 03/16/22 08:16

Matrix: Water

Date Received: 03/16/22 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	45447	03/18/22 11:12	NA	XEN STF
Total/NA	Analysis	300.0		1	45381	03/17/22 22:47	WP	XEN STF
Total/NA	Analysis	300.0		1	45382	03/17/22 22:47	WP	XEN STF
Total Recoverable	Prep	200.7			45452	03/18/22 07:16	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	45556	03/18/22 14:25	AV	XEN STF
Total Recoverable	Prep	200.7			45452	03/18/22 07:16	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	45556	03/18/22 16:02	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	46181	03/23/22 20:07	DP	XEN STF
Total/NA	Analysis	SM 2320B		1	45561	03/18/22 12:47	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	45423	03/17/22 17:43	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	45434	03/17/22 18:15	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
200.7 Rev 4.4	Metals (ICP)	EPA	XEN STF
SM 1030E	Cation Anion Balance	SM	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
200.7	Preparation, Total Recoverable Metals	EPA	XEN STF
5030C	Purge and Trap	SW846	XEN STF

Protocol References:
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12512-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12512-1	Levey Well	Water	03/16/22 08:16	03/16/22 15:51

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



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

Work Order No: 12512

www.xenco.com page 1 of 1

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	210-219-8858	Email:	bjenings@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name:	Levey Well	Hobbs NM	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	03B1417001		Routine ☐			
P.O. Number:	03B1417001		Rush 24 hr			
Sampler's Name:	Aaron Marquez		Due Date:			

SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	16.3/16.2	Thermometer ID	TPE	
Received Intact:	Yes ☒ No ☐	Correction Factor:	-1	
Cooler Custody Seals:	Yes ☒ No ☐	Total Containers:	1	
Sample Custody Seals:	Yes ☒ No ☐			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS	Sample Comments
Levey Well	W	3-16-22	0816	-	7	X	X	X	X	X	X	24 hr
880-12512 Chain of Custody 												

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		3/16/22 15:51			



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12858-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb NM - 03B1417001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
3/30/2022 3:59:15 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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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: Levey Well Hobb NM - 03B1417001

Laboratory Job ID: 880-12858-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-12858-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

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Case Narrative

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Job ID: 880-12858-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-12858-1**

Receipt

The sample was received on 3/24/2022 3:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-46552 recovered outside control limits for the following analytes: Trichlorofluoromethane

Method 8260C: The matrix spike(MS) recoveries for analytical batch 860-46552 were outside control limits. Sample matrix interference 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-46357 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. chloride

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-46358 were outside control limits. Sample matrix interference 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.

Metals

Method 200.7: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-46497 and analytical batch 860-46573 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12858-1

Date Collected: 03/24/22 10:30

Matrix: Water

Date Received: 03/24/22 15:18

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00236		0.00100	0.000214	mg/L		03/28/22 13:07	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		03/28/22 13:07	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		03/28/22 13:07	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		03/28/22 13:07	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		03/28/22 13:07	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		03/28/22 13:07	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		03/28/22 13:07	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		03/28/22 13:07	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		03/28/22 13:07	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		03/28/22 13:07	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		03/28/22 13:07	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		03/28/22 13:07	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		03/28/22 13:07	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		03/28/22 13:07	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		03/28/22 13:07	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		03/28/22 13:07	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		03/28/22 13:07	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		03/28/22 13:07	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		03/28/22 13:07	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		03/28/22 13:07	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		03/28/22 13:07	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		03/28/22 13:07	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		03/28/22 13:07	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		03/28/22 13:07	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		03/28/22 13:07	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		03/28/22 13:07	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		03/28/22 13:07	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		03/28/22 13:07	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		03/28/22 13:07	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		03/28/22 13:07	1
Ethylbenzene	0.00867		0.00100	0.000515	mg/L		03/28/22 13:07	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		03/28/22 13:07	1
Isopropylbenzene	0.00409		0.00100	0.000161	mg/L		03/28/22 13:07	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		03/28/22 13:07	1
m,p-Xylenes	0.0341	F1	0.0100	0.000330	mg/L		03/28/22 13:07	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		03/28/22 13:07	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		03/28/22 13:07	1
n-Butylbenzene	0.000553	J	0.00100	0.000286	mg/L		03/28/22 13:07	1
N-Propylbenzene	0.00208		0.00100	0.000179	mg/L		03/28/22 13:07	1
o-Xylene	0.00491		0.00100	0.000192	mg/L		03/28/22 13:07	1
p-Cymene (p-Isopropyltoluene)	0.000509	J	0.00100	0.000233	mg/L		03/28/22 13:07	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		03/28/22 13:07	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		03/28/22 13:07	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		03/28/22 13:07	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		03/28/22 13:07	1
1,1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		03/28/22 13:07	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		03/28/22 13:07	1
Toluene	0.0178		0.00100	0.000500	mg/L		03/28/22 13:07	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		03/28/22 13:07	1

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-12858-1

Date Collected: 03/24/22 10:30

Matrix: Water

Date Received: 03/24/22 15:18

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/28/22 13:07	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 13:07	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 13:07	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/28/22 13:07	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/28/22 13:07	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/28/22 13:07	1
Trichlorofluoromethane	<0.000245	U *1	0.00100	0.000245 mg/L			03/28/22 13:07	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/28/22 13:07	1
1,2,4-Trimethylbenzene	0.0101		0.00100	0.000252 mg/L			03/28/22 13:07	1
1,3,5-Trimethylbenzene	0.00323		0.00100	0.000279 mg/L			03/28/22 13:07	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/28/22 13:07	1
Xylenes, Total	0.0390		0.0100	0.000330 mg/L			03/28/22 13:07	1
Total BTEX	0.0679		0.0100	0.000214 mg/L			03/28/22 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/28/22 13:07	1
Dibromofluoromethane (Surr)	104		75 - 131		03/28/22 13:07	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		03/28/22 13:07	1
Toluene-d8 (Surr)	102		80 - 117		03/28/22 13:07	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.539		0.500	0.0711 mg/L			03/25/22 20:32	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/22 20:32	1
Chloride	230		0.500	0.200 mg/L			03/25/22 20:32	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/25/22 20:32	1
Fluoride	0.709		0.500	0.100 mg/L			03/25/22 20:32	1
Sulfate	43.4		0.500	0.109 mg/L			03/25/22 20:32	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	252		10.0	1.47 mg/L		03/26/22 07:54	03/27/22 22:33	50
Magnesium	51.3		0.200	0.0500 mg/L		03/26/22 07:54	03/27/22 21:31	1
Potassium	4.07		0.500	0.107 mg/L		03/26/22 07:54	03/27/22 21:31	1
Sodium	81.5		0.500	0.0667 mg/L		03/26/22 07:54	03/29/22 14:38	1
SiO2	66.4		1.07	0.0781 mg/L		03/26/22 07:54	03/27/22 21:31	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-4.80			%			03/30/22 15:48	1
Alkalinity	644		4.00	4.00 mg/L			03/25/22 18:38	1
Bicarbonate Alkalinity as CaCO3	644		4.00	4.00 mg/L			03/25/22 18:38	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/25/22 18:38	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/25/22 18:38	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			03/25/22 18:38	1
Total Dissolved Solids	1390		10.0	10.0 mg/L			03/26/22 13:11	1
pH	6.5	HF		SU			03/26/22 13:31	1
Temperature	18.6	HF		Celsius			03/26/22 13:31	1

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Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
880-12858-1	Levey Well	101	104	107	102
880-12858-1 MS	Levey Well	101	101	101	100
LCS 860-46552/3	Lab Control Sample	102	102	101	101
LCSD 860-46552/4	Lab Control Sample Dup	101	102	101	100
MB 860-46552/10	Method Blank	102	103	105	102
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum

Job ID: 880-12858-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-46552/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 46552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 11:24	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/28/22 11:24	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/28/22 11:24	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/28/22 11:24	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/28/22 11:24	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/28/22 11:24	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/28/22 11:24	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/28/22 11:24	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/28/22 11:24	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/28/22 11:24	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/28/22 11:24	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/28/22 11:24	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 11:24	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/28/22 11:24	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/28/22 11:24	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/28/22 11:24	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/28/22 11:24	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/28/22 11:24	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/28/22 11:24	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/28/22 11:24	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/28/22 11:24	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 11:24	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/28/22 11:24	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/28/22 11:24	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/28/22 11:24	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/28/22 11:24	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/28/22 11:24	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/28/22 11:24	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/28/22 11:24	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/28/22 11:24	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/28/22 11:24	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 11:24	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/28/22 11:24	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/28/22 11:24	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 11:24	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/28/22 11:24	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/28/22 11:24	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/28/22 11:24	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/28/22 11:24	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/28/22 11:24	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/28/22 11:24	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 11:24	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/28/22 11:24	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/28/22 11:24	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/28/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/28/22 11:24	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 11:24	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 11:24	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-46552/10

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/28/22 11:24	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/28/22 11:24	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 11:24	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 11:24	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/28/22 11:24	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/28/22 11:24	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/28/22 11:24	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/28/22 11:24	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/28/22 11:24	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/28/22 11:24	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/28/22 11:24	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/28/22 11:24	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 11:24	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/28/22 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		03/28/22 11:24	1
Dibromofluoromethane (Surr)	103		75 - 131		03/28/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		03/28/22 11:24	1
Toluene-d8 (Surr)	102		80 - 117		03/28/22 11:24	1

Lab Sample ID: LCS 860-46552/3

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04598		mg/L		92	66 - 142
Bromobenzene	0.0500	0.04520		mg/L		90	75 - 125
Bromochloromethane	0.0500	0.04622		mg/L		92	60 - 140
Bromodichloromethane	0.0500	0.04553		mg/L		91	75 - 125
Bromoform	0.0500	0.04530		mg/L		91	75 - 125
Bromomethane	0.0500	0.04866		mg/L		97	60 - 140
2-Butanone	0.250	0.2422		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.04521		mg/L		90	62 - 125
Chlorobenzene	0.0500	0.04577		mg/L		92	60 - 133
Chloroethane	0.0500	0.05468		mg/L		109	60 - 140
Chloroform	0.0500	0.04729		mg/L		95	70 - 130
Chloromethane	0.0500	0.04465		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.04708		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04684		mg/L		94	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04982		mg/L		100	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04637		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04558		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04513		mg/L		90	59 - 125
1,2-Dibromoethane	0.0500	0.04532		mg/L		91	73 - 125
1,2-Dichlorobenzene	0.0500	0.04505		mg/L		90	75 - 125
1,3-Dichlorobenzene	0.0500	0.04479		mg/L		90	75 - 125
1,4-Dichlorobenzene	0.0500	0.04442		mg/L		89	75 - 125

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-46552/3

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.04810		mg/L		96	70 - 130
1,1-Dichloroethane	0.0500	0.05012		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.04604		mg/L		92	68 - 127
1,1-Dichloroethene	0.0500	0.04031		mg/L		81	59 - 172
1,2-Dichloropropane	0.0500	0.04534		mg/L		91	74 - 125
1,3-Dichloropropane	0.0500	0.04539		mg/L		91	75 - 125
2,2-Dichloropropane	0.0500	0.05187		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04573		mg/L		91	75 - 125
Ethylbenzene	0.0500	0.04703		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.05006		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.04793		mg/L		96	75 - 125
Methylene Chloride	0.0500	0.03942		mg/L		79	75 - 125
m,p-Xylenes	0.0500	0.04726		mg/L		95	75 - 125
MTBE	0.0500	0.04937		mg/L		99	65 - 135
Naphthalene	0.0500	0.05235		mg/L		105	70 - 130
n-Butylbenzene	0.0500	0.04619		mg/L		92	75 - 125
N-Propylbenzene	0.0500	0.04725		mg/L		94	75 - 125
o-Xylene	0.0500	0.04731		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04742		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04849		mg/L		97	75 - 125
Styrene	0.0500	0.04782		mg/L		96	75 - 125
tert-Butylbenzene	0.0500	0.04609		mg/L		92	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04604		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04465		mg/L		89	74 - 125
Tetrachloroethene	0.0500	0.04452		mg/L		89	71 - 125
Toluene	0.0500	0.04577		mg/L		92	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04772		mg/L		95	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04722		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05188		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05070		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.04688		mg/L		94	75 - 125
1,1,2-Trichloroethane	0.0500	0.04593		mg/L		92	75 - 127
Trichloroethene	0.0500	0.04527		mg/L		91	62 - 137
Trichlorofluoromethane	0.0500	0.05897		mg/L		118	60 - 140
1,2,3-Trichloropropane	0.0500	0.04691		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04740		mg/L		95	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04750		mg/L		95	60 - 140
Vinyl chloride	0.0500	0.04278		mg/L		86	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46552/4

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04407		mg/L		88	66 - 142	4	25
Bromobenzene	0.0500	0.04267		mg/L		85	75 - 125	6	25
Bromochloromethane	0.0500	0.04558		mg/L		91	60 - 140	1	25
Bromodichloromethane	0.0500	0.04402		mg/L		88	75 - 125	3	25
Bromoform	0.0500	0.04540		mg/L		91	75 - 125	0	25
Bromomethane	0.0500	0.04326		mg/L		87	60 - 140	12	25
2-Butanone	0.250	0.2576		mg/L		103	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04307		mg/L		86	62 - 125	5	25
Chlorobenzene	0.0500	0.04389		mg/L		88	60 - 133	4	25
Chloroethane	0.0500	0.04704		mg/L		94	60 - 140	15	25
Chloroform	0.0500	0.04532		mg/L		91	70 - 130	4	25
Chloromethane	0.0500	0.04277		mg/L		86	60 - 140	4	25
2-Chlorotoluene	0.0500	0.04433		mg/L		89	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04385		mg/L		88	74 - 125	7	25
cis-1,2-Dichloroethene	0.0500	0.04778		mg/L		96	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04515		mg/L		90	74 - 125	3	25
Dibromochloromethane	0.0500	0.04412		mg/L		88	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04636		mg/L		93	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.04502		mg/L		90	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04325		mg/L		87	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04239		mg/L		85	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04195		mg/L		84	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.04189		mg/L		84	70 - 130	14	25
1,1-Dichloroethane	0.0500	0.04633		mg/L		93	72 - 125	8	25
1,2-Dichloroethane	0.0500	0.04462		mg/L		89	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04012		mg/L		80	59 - 172	0	25
1,2-Dichloropropane	0.0500	0.04386		mg/L		88	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04465		mg/L		89	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04912		mg/L		98	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04328		mg/L		87	75 - 125	6	25
Ethylbenzene	0.0500	0.04457		mg/L		89	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.04731		mg/L		95	75 - 125	6	25
Isopropylbenzene	0.0500	0.04580		mg/L		92	75 - 125	5	25
Methylene Chloride	0.0500	0.04775		mg/L		95	75 - 125	19	25
m,p-Xylenes	0.0500	0.04528		mg/L		91	75 - 125	4	25
MTBE	0.0500	0.04858		mg/L		97	65 - 135	2	25
Naphthalene	0.0500	0.05214		mg/L		104	70 - 130	0	25
n-Butylbenzene	0.0500	0.04331		mg/L		87	75 - 125	6	25
N-Propylbenzene	0.0500	0.04426		mg/L		89	75 - 125	7	25
o-Xylene	0.0500	0.04497		mg/L		90	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04461		mg/L		89	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04564		mg/L		91	75 - 125	6	25
Styrene	0.0500	0.04567		mg/L		91	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04379		mg/L		88	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04412		mg/L		88	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04445		mg/L		89	74 - 125	0	25
Tetrachloroethene	0.0500	0.04257		mg/L		85	71 - 125	4	25
Toluene	0.0500	0.04366		mg/L		87	59 - 139	5	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46552/4

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.04399		mg/L		88	75 - 125	8	25
trans-1,3-Dichloropropene	0.0500	0.04646		mg/L		93	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05139		mg/L		103	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05037		mg/L		101	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.04454		mg/L		89	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.04471		mg/L		89	75 - 127	3	25
Trichloroethene	0.0500	0.04286		mg/L		86	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.04479	*1	mg/L		90	60 - 140	27	25
1,2,3-Trichloropropane	0.0500	0.04649		mg/L		93	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.04488		mg/L		90	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.04391		mg/L		88	60 - 140	8	25
Vinyl chloride	0.0500	0.03503		mg/L		70	60 - 140	20	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Lab Sample ID: 880-12858-1 MS

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00236		0.0500	0.05223		mg/L		100	66 - 142
Bromobenzene	<0.000300	U	0.0500	0.04641		mg/L		93	75 - 125
Bromochloromethane	<0.000209	U	0.0500	0.04782		mg/L		96	60 - 140
Bromodichloromethane	<0.000231	U	0.0500	0.04938		mg/L		99	75 - 125
Bromoform	<0.000630	U	0.0500	0.04906		mg/L		98	75 - 125
Bromomethane	<0.00105	U	0.0500	0.04145		mg/L		83	60 - 140
2-Butanone	<0.00270	U	0.250	0.2859		mg/L		114	60 - 140
Carbon tetrachloride	<0.000423	U	0.0500	0.05004		mg/L		100	62 - 125
Chlorobenzene	<0.000159	U	0.0500	0.04794		mg/L		96	60 - 133
Chloroethane	<0.000433	U	0.0500	0.04271		mg/L		85	60 - 140
Chloroform	<0.000259	U	0.0500	0.04998		mg/L		100	70 - 130
Chloromethane	<0.000318	U	0.0500	0.04151		mg/L		83	60 - 140
2-Chlorotoluene	<0.000214	U	0.0500	0.04964		mg/L		99	73 - 125
4-Chlorotoluene	<0.000183	U	0.0500	0.04833		mg/L		97	74 - 125
cis-1,2-Dichloroethene	<0.000174	U	0.0500	0.05254		mg/L		105	75 - 125
cis-1,3-Dichloropropene	<0.000690	U	0.0500	0.05003		mg/L		100	74 - 125
Dibromochloromethane	<0.000739	U	0.0500	0.04810		mg/L		96	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.05064		mg/L		101	59 - 125
1,2-Dibromoethane	<0.000337	U	0.0500	0.04836		mg/L		97	73 - 125
1,2-Dichlorobenzene	<0.000236	U	0.0500	0.04672		mg/L		93	75 - 125
1,3-Dichlorobenzene	<0.000197	U	0.0500	0.04675		mg/L		94	75 - 125
1,4-Dichlorobenzene	<0.000199	U	0.0500	0.04582		mg/L		92	75 - 125
Dichlorodifluoromethane	<0.000316	U	0.0500	0.03988		mg/L		80	70 - 130
1,1-Dichloroethane	<0.000244	U	0.0500	0.05355		mg/L		107	72 - 125

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-12858-1 MS

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	<0.000285	U	0.0500	0.04957		mg/L		99	68 - 127
1,1-Dichloroethene	<0.000216	U	0.0500	0.04706		mg/L		94	59 - 172
1,2-Dichloropropane	<0.000396	U	0.0500	0.04981		mg/L		100	74 - 125
1,3-Dichloropropane	<0.000439	U	0.0500	0.04866		mg/L		97	75 - 125
2,2-Dichloropropane	<0.000360	U	0.0500	0.05418		mg/L		108	75 - 125
1,1-Dichloropropene	<0.000481	U	0.0500	0.04885		mg/L		98	75 - 125
Ethylbenzene	0.00867		0.0500	0.06223		mg/L		107	75 - 125
Hexachlorobutadiene	<0.00200	U	0.0500	0.05186		mg/L		104	75 - 125
Isopropylbenzene	0.00409		0.0500	0.05835		mg/L		109	75 - 125
Methylene Chloride	<0.00191	U	0.0500	0.05147		mg/L		103	75 - 125
m,p-Xylenes	0.0341	F1	0.0500	0.1007	F1	mg/L		133	75 - 125
MTBE	<0.000571	U	0.0500	0.04481		mg/L		90	65 - 135
Naphthalene	<0.00200	U	0.0500	0.06155		mg/L		123	70 - 130
n-Butylbenzene	0.000553	J	0.0500	0.04851		mg/L		96	75 - 125
N-Propylbenzene	0.00208		0.0500	0.05189		mg/L		100	75 - 125
o-Xylene	0.00491		0.0500	0.05769		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.000509	J	0.0500	0.05017		mg/L		99	75 - 125
sec-Butylbenzene	<0.000199	U	0.0500	0.05174		mg/L		103	75 - 125
Styrene	<0.000623	U	0.0500	0.05079		mg/L		102	75 - 125
tert-Butylbenzene	<0.000195	U	0.0500	0.04806		mg/L		96	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U	0.0500	0.04907		mg/L		98	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U	0.0500	0.04829		mg/L		97	74 - 125
Tetrachloroethene	<0.000500	U	0.0500	0.04793		mg/L		96	71 - 125
Toluene	0.0178		0.0500	0.07234		mg/L		109	59 - 139
trans-1,2-Dichloroethene	<0.000256	U	0.0500	0.03865		mg/L		77	75 - 125
trans-1,3-Dichloropropene	<0.000752	U	0.0500	0.05086		mg/L		102	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U	0.0500	0.05857		mg/L		117	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U	0.0500	0.05600		mg/L		112	75 - 135
1,1,1-Trichloroethane	<0.000504	U	0.0500	0.05013		mg/L		100	75 - 125
1,1,2-Trichloroethane	<0.000228	U	0.0500	0.04965		mg/L		99	75 - 127
Trichloroethene	<0.000424	U	0.0500	0.04845		mg/L		97	62 - 137
Trichlorofluoromethane	<0.000245	U *1	0.0500	0.04777		mg/L		96	60 - 140
1,2,3-Trichloropropane	<0.000283	U	0.0500	0.04675		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0101		0.0500	0.06576		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.00323		0.0500	0.05354		mg/L		101	70 - 125
Vinyl chloride	<0.000234	U	0.0500	0.04368		mg/L		87	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		74 - 124						
Dibromofluoromethane (Surr)	101		75 - 131						
1,2-Dichloroethane-d4 (Surr)	101		63 - 144						
Toluene-d8 (Surr)	100		80 - 117						

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46357/3

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			03/25/22 13:59	1
Chloride	<0.200	U	0.500	0.200 mg/L			03/25/22 13:59	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/25/22 13:59	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/25/22 13:59	1

Lab Sample ID: LCS 860-46357/6

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.376		mg/L		94	90 - 110
Chloride	10.0	9.406		mg/L		94	90 - 110
Fluoride	10.0	10.03		mg/L		100	90 - 110
Sulfate	10.0	9.615		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-46357/7

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.344		mg/L		93	90 - 110	0	20
Chloride	10.0	9.580		mg/L		96	90 - 110	2	20
Fluoride	10.0	10.12		mg/L		101	90 - 110	1	20
Sulfate	10.0	9.571		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-46357/5

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	0.500	0.5605		mg/L		112	50 - 150
Chloride	0.500	0.5354		mg/L		107	50 - 150
Fluoride	0.500	0.4730	J	mg/L		95	50 - 150
Sulfate	0.500	0.5456		mg/L		109	50 - 150

Lab Sample ID: MB 860-46358/3

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/22 13:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/25/22 13:59	1

Lab Sample ID: LCS 860-46358/6

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.392		mg/L		94	80 - 120
Nitrite as N	5.00	4.839		mg/L		97	80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 860-46358/7

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Nitrate as N			10.0	9.385		mg/L		94	80 - 120	0	20
Nitrite as N			5.00	4.867		mg/L		97	80 - 120	1	20

Lab Sample ID: LLCS 860-46358/4

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Nitrate as N	0.100	0.1337		mg/L		134	50 - 150	
Nitrite as N	0.100	0.1009		mg/L		101	50 - 150	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-46497/1-A

Matrix: Water

Analysis Batch: 46573

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.0293	U	0.200	0.0293 mg/L		03/26/22 07:54	03/27/22 20:08	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		03/26/22 07:54	03/27/22 20:08	1
Potassium	<0.107	U	0.500	0.107 mg/L		03/26/22 07:54	03/27/22 20:08	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		03/26/22 07:54	03/27/22 20:08	1

Lab Sample ID: MB 860-46497/1-A

Matrix: Water

Analysis Batch: 46849

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.0293	U	0.200	0.0293 mg/L		03/26/22 07:54	03/29/22 13:10	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		03/26/22 07:54	03/29/22 13:10	1
Potassium	<0.107	U	0.500	0.107 mg/L		03/26/22 07:54	03/29/22 13:10	1
Sodium	<0.0667	U	0.500	0.0667 mg/L		03/26/22 07:54	03/29/22 13:10	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		03/26/22 07:54	03/29/22 13:10	1

Lab Sample ID: LCS 860-46497/2-A

Matrix: Water

Analysis Batch: 46573

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Calcium	25.0	24.12		mg/L		96	85 - 115	
Magnesium	25.0	24.16		mg/L		97	85 - 115	
Potassium	10.0	9.938		mg/L		99	85 - 115	
SiO2	21.4	21.12		mg/L		99	85 - 115	

Lab Sample ID: LCS 860-46497/2-A

Matrix: Water

Analysis Batch: 46849

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Calcium	25.0	25.59		mg/L		102	85 - 115	

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-46497/2-A

Matrix: Water

Analysis Batch: 46849

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	25.0	24.80		mg/L		99	85 - 115
Potassium	10.0	10.24		mg/L		102	85 - 115
Sodium	25.0	25.57		mg/L		102	85 - 115
SiO2	21.4	21.36		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-46497/3-A

Matrix: Water

Analysis Batch: 46573

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	25.0	23.94		mg/L		96	85 - 115	1	20
Magnesium	25.0	23.97		mg/L		96	85 - 115	1	20
Potassium	10.0	9.855		mg/L		99	85 - 115	1	20
SiO2	21.4	20.93		mg/L		98	85 - 115	1	20

Lab Sample ID: LCSD 860-46497/3-A

Matrix: Water

Analysis Batch: 46849

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 46497

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	25.0	25.29		mg/L		101	85 - 115	1	20
Magnesium	25.0	24.50		mg/L		98	85 - 115	1	20
Potassium	10.0	10.08		mg/L		101	85 - 115	2	20
Sodium	25.0	25.29		mg/L		101	85 - 115	1	20
SiO2	21.4	21.31		mg/L		100	85 - 115	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-46499/3

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			03/25/22 18:08	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/25/22 18:08	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/25/22 18:08	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			03/25/22 18:08	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			03/25/22 18:08	1

Lab Sample ID: LCS 860-46499/4

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	256.5		mg/L		103	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-46499/5

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	259.6		mg/L		104	85 - 115	1	20

Lab Sample ID: LLCS 860-46499/36

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	50.0	57.59		mg/L		115	50 - 150		

Lab Sample ID: 880-12858-1 DU

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	644		666.8		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	644		666.8		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-46522/1

Matrix: Water

Analysis Batch: 46522

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			03/26/22 13:11	1

Lab Sample ID: LCS 860-46522/2

Matrix: Water

Analysis Batch: 46522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1118		mg/L		112	80 - 120		

Lab Sample ID: LCSD 860-46522/3

Matrix: Water

Analysis Batch: 46522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1105		mg/L		111	80 - 120	1	10

Lab Sample ID: LLCS 860-46522/4

Matrix: Water

Analysis Batch: 46522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	5.00	<5.00	U	mg/L		60	50 - 150		

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 46552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	8260C	
MB 860-46552/10	Method Blank	Total/NA	Water	8260C	
LCS 860-46552/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-46552/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-12858-1 MS	Levey Well	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 46357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	300.0	
MB 860-46357/3	Method Blank	Total/NA	Water	300.0	
LCS 860-46357/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46357/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46357/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 46358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	300.0	
MB 860-46358/3	Method Blank	Total/NA	Water	300.0	
LCS 860-46358/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46358/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46358/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 46497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-46497/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-46497/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-46497/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 46573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	46497
880-12858-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	46497
MB 860-46497/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	46497
LCS 860-46497/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	46497
LCSD 860-46497/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	46497

Analysis Batch: 46849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	46497
MB 860-46497/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	46497
LCS 860-46497/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	46497
LCSD 860-46497/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	46497

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 46499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-46499/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-46499/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-46499/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-46499/36	Lab Control Sample	Total/NA	Water	SM 2320B	
880-12858-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 46522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-46522/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-46522/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-46522/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-46522/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 46524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 46993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12858-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 03/24/22 10:30
Date Received: 03/24/22 15:18

Lab Sample ID: 880-12858-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46552	03/28/22 13:07	NA	XEN STF
Total/NA	Analysis	300.0		1	46357	03/25/22 20:32	ANP	XEN STF
Total/NA	Analysis	300.0		1	46358	03/25/22 20:32	ANP	XEN STF
Total Recoverable	Prep	200.7			46497	03/26/22 07:54	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	46573	03/27/22 21:31	AV	XEN STF
Total Recoverable	Prep	200.7			46497	03/26/22 07:54	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	46573	03/27/22 22:33	AV	XEN STF
Total Recoverable	Prep	200.7			46497	03/26/22 07:54	AGR	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	46849	03/29/22 14:38	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	46993	03/30/22 15:48	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	46499	03/25/22 18:38	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	46522	03/26/22 13:11	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	46524	03/26/22 13:31	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
200.7 Rev 4.4	Metals (ICP)	EPA	XEN STF
SM 1030E	Cation Anion Balance	SM	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
200.7	Preparation, Total Recoverable Metals	EPA	XEN STF
5030C	Purge and Trap	SW846	XEN STF

Protocol References:

EPA = US Environmental Protection Agency

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-12858-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12858-1	Levey Well	Water	03/24/22 10:30	03/24/22 15:18

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



Chain of Custody

Work



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0830 San Antonio, TX (210) 509-3333
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-335-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-392-7550)

W

06U-12858 Chain of Custody

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other:

Project Name:	Levey Well Hobbs NIM	Turn Around	ANALYSIS REQUEST										Work Order Notes
Project Number:	03B1417001		Routine ☐										
P.O. Number:	03B1417001		Rush: 24 hr										
Sampler's Name:	Aaron Marquez		Due Date:										

SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	55/54								
Received Intact:	Yes No								
Cooler Custody Seals:	Yes No N/A								
Sample Custody Seals:	Yes No N/A								
					Thermometer ID				
					Correction Factor:				
					Total Containers:				

Number of Containers

F, Cl, SO₄, B

Ca, K, Mg, Na, Si

Y

TAT starts the day received by the lab, if received by 4:30pm

[illegible]

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		1631 / 245.1 / 7470 / 7477 · H ₂ O

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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 		6/24/88	2		
3		7/8/88	4		

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CUSTODY SEAL
Date 3-24-2022
Signature [Signature]

Thermo
S C I E N T I F I C

90009

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12858-1

SDG Number: Hobbs NM

Login Number: 12858

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12858-1

SDG Number: Hobbs NM

Login Number: 12858

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/25/22 03:27 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-13152-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobb NM - 03B1417001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
4/7/2022 2:53:09 PM

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

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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: Levey Well Hobb NM - 03B1417001

Laboratory Job ID: 880-13152-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-13152-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Eurofins Midland

Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Case Narrative

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Job ID: 880-13152-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-13152-1

Receipt

The sample was received on 3/31/2022 3:54 PM. Unless otherwise noted below, the sample 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/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-47217 contained sulfate above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

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

Metals

Method 200.7: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-47445 and analytical batch 860-47615 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-13152-1

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00254		0.00100	0.000214	mg/L		04/01/22 13:22	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		04/01/22 13:22	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		04/01/22 13:22	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		04/01/22 13:22	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		04/01/22 13:22	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		04/01/22 13:22	1
2-Butanone	0.00431	J	0.0500	0.00270	mg/L		04/01/22 13:22	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		04/01/22 13:22	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		04/01/22 13:22	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		04/01/22 13:22	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		04/01/22 13:22	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		04/01/22 13:22	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		04/01/22 13:22	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		04/01/22 13:22	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		04/01/22 13:22	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		04/01/22 13:22	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		04/01/22 13:22	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		04/01/22 13:22	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		04/01/22 13:22	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		04/01/22 13:22	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		04/01/22 13:22	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		04/01/22 13:22	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		04/01/22 13:22	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		04/01/22 13:22	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		04/01/22 13:22	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		04/01/22 13:22	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		04/01/22 13:22	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		04/01/22 13:22	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		04/01/22 13:22	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		04/01/22 13:22	1
Ethylbenzene	0.00985		0.00100	0.000515	mg/L		04/01/22 13:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		04/01/22 13:22	1
Isopropylbenzene	0.00482		0.00100	0.000161	mg/L		04/01/22 13:22	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		04/01/22 13:22	1
m,p-Xylenes	0.0371		0.0100	0.000330	mg/L		04/01/22 13:22	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		04/01/22 13:22	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		04/01/22 13:22	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		04/01/22 13:22	1
N-Propylbenzene	0.00233		0.00100	0.000179	mg/L		04/01/22 13:22	1
o-Xylene	0.00574		0.00100	0.000192	mg/L		04/01/22 13:22	1
p-Cymene (p-Isopropyltoluene)	0.000605	J	0.00100	0.000233	mg/L		04/01/22 13:22	1
sec-Butylbenzene	0.000932	J	0.00100	0.000199	mg/L		04/01/22 13:22	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		04/01/22 13:22	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		04/01/22 13:22	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		04/01/22 13:22	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		04/01/22 13:22	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		04/01/22 13:22	1
Toluene	0.0197		0.00100	0.000500	mg/L		04/01/22 13:22	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		04/01/22 13:22	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-13152-1

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			04/01/22 13:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 13:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 13:22	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			04/01/22 13:22	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			04/01/22 13:22	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			04/01/22 13:22	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			04/01/22 13:22	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			04/01/22 13:22	1
1,2,4-Trimethylbenzene	0.0121		0.00100	0.000252 mg/L			04/01/22 13:22	1
1,3,5-Trimethylbenzene	0.00390		0.00100	0.000279 mg/L			04/01/22 13:22	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			04/01/22 13:22	1
Xylenes, Total	0.0428		0.0100	0.000330 mg/L			04/01/22 13:22	1
Total BTEX	0.0749		0.0100	0.000214 mg/L			04/01/22 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		04/01/22 13:22	1
Dibromofluoromethane (Surr)	101		75 - 131		04/01/22 13:22	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		04/01/22 13:22	1
Toluene-d8 (Surr)	103		80 - 117		04/01/22 13:22	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.515		0.500	0.0711 mg/L			04/02/22 00:35	1
Nitrate as N	0.239		0.100	0.0391 mg/L			04/02/22 00:35	1
Chloride	223		0.500	0.200 mg/L			04/02/22 00:35	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			04/02/22 00:35	1
Fluoride	0.690		0.500	0.100 mg/L			04/02/22 00:35	1
Sulfate	44.0	B	0.500	0.109 mg/L			04/02/22 00:35	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	245		10.0	1.47 mg/L		04/04/22 09:00	04/04/22 21:00	50
Magnesium	52.7		0.200	0.0500 mg/L		04/04/22 09:00	04/04/22 20:42	1
Potassium	3.79		0.500	0.107 mg/L		04/04/22 09:00	04/05/22 13:15	1
Sodium	77.2	B	0.500	0.0667 mg/L		04/04/22 09:00	04/04/22 20:42	1
SiO2	65.3		1.07	0.0781 mg/L		04/04/22 09:00	04/04/22 20:42	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-5.18			%			04/04/22 17:20	1
Alkalinity	641		4.00	4.00 mg/L			04/01/22 15:07	1
Bicarbonate Alkalinity as CaCO3	641		4.00	4.00 mg/L			04/01/22 15:07	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			04/01/22 15:07	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			04/01/22 15:07	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			04/01/22 15:07	1
Total Dissolved Solids	1220		10.0	10.0 mg/L			04/01/22 17:37	1
pH	6.4	HF		SU			04/01/22 15:09	1
Temperature	19.0	HF		Celsius			04/01/22 15:09	1

Eurofins Midland

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
870-6815-C-1 MS	Matrix Spike	99	101	102	99
880-13152-1	Levey Well	102	101	107	103
LCS 860-47222/3	Lab Control Sample	103	101	101	101
LCSD 860-47222/4	Lab Control Sample Dup	101	103	103	100
MB 860-47222/10	Method Blank	104	100	103	102
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum

Job ID: 880-13152-1

Project/Site: Levey Well Hobb NM - 03B1417001

SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-47222/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47222

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 10:38	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			04/01/22 10:38	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			04/01/22 10:38	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			04/01/22 10:38	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			04/01/22 10:38	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			04/01/22 10:38	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			04/01/22 10:38	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			04/01/22 10:38	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			04/01/22 10:38	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			04/01/22 10:38	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			04/01/22 10:38	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			04/01/22 10:38	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 10:38	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			04/01/22 10:38	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			04/01/22 10:38	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			04/01/22 10:38	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			04/01/22 10:38	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			04/01/22 10:38	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			04/01/22 10:38	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			04/01/22 10:38	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			04/01/22 10:38	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 10:38	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			04/01/22 10:38	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			04/01/22 10:38	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			04/01/22 10:38	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			04/01/22 10:38	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			04/01/22 10:38	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			04/01/22 10:38	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			04/01/22 10:38	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			04/01/22 10:38	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			04/01/22 10:38	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 10:38	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			04/01/22 10:38	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			04/01/22 10:38	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			04/01/22 10:38	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			04/01/22 10:38	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			04/01/22 10:38	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			04/01/22 10:38	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			04/01/22 10:38	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			04/01/22 10:38	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			04/01/22 10:38	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 10:38	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			04/01/22 10:38	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			04/01/22 10:38	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			04/01/22 10:38	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			04/01/22 10:38	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 10:38	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 10:38	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-47222/10

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			04/01/22 10:38	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			04/01/22 10:38	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 10:38	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 10:38	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			04/01/22 10:38	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			04/01/22 10:38	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			04/01/22 10:38	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			04/01/22 10:38	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			04/01/22 10:38	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			04/01/22 10:38	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			04/01/22 10:38	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			04/01/22 10:38	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			04/01/22 10:38	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			04/01/22 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		04/01/22 10:38	1
Dibromofluoromethane (Surr)	100		75 - 131		04/01/22 10:38	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		04/01/22 10:38	1
Toluene-d8 (Surr)	102		80 - 117		04/01/22 10:38	1

Lab Sample ID: LCS 860-47222/3

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04683		mg/L		94	66 - 142
Bromobenzene	0.0500	0.04997		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.04800		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04817		mg/L		96	75 - 125
Bromoform	0.0500	0.04805		mg/L		96	75 - 125
Bromomethane	0.0500	0.05380		mg/L		108	60 - 140
2-Butanone	0.250	0.2248		mg/L		90	60 - 140
Carbon tetrachloride	0.0500	0.04950		mg/L		99	62 - 125
Chlorobenzene	0.0500	0.04738		mg/L		95	60 - 133
Chloroethane	0.0500	0.05230		mg/L		105	60 - 140
Chloroform	0.0500	0.04892		mg/L		98	70 - 130
Chloromethane	0.0500	0.04999		mg/L		100	60 - 140
2-Chlorotoluene	0.0500	0.04967		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04962		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04806		mg/L		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04810		mg/L		96	74 - 125
Dibromochloromethane	0.0500	0.04750		mg/L		95	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04691		mg/L		94	59 - 125
1,2-Dibromoethane	0.0500	0.04728		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.04973		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04970		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.04985		mg/L		100	75 - 125

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-47222/3

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04996		mg/L		100	70 - 130
1,1-Dichloroethane	0.0500	0.04795		mg/L		96	72 - 125
1,2-Dichloroethane	0.0500	0.04852		mg/L		97	68 - 127
1,1-Dichloroethene	0.0500	0.04660		mg/L		93	59 - 172
1,2-Dichloropropane	0.0500	0.04759		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04779		mg/L		96	75 - 125
2,2-Dichloropropane	0.0500	0.04838		mg/L		97	75 - 125
1,1-Dichloropropene	0.0500	0.04721		mg/L		94	75 - 125
Ethylbenzene	0.0500	0.04775		mg/L		95	75 - 125
Hexachlorobutadiene	0.0500	0.05044		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.04766		mg/L		95	75 - 125
Methylene Chloride	0.0500	0.04723		mg/L		94	75 - 125
m,p-Xylenes	0.0500	0.04753		mg/L		95	75 - 125
MTBE	0.0500	0.04803		mg/L		96	65 - 135
Naphthalene	0.0500	0.04890		mg/L		98	70 - 130
n-Butylbenzene	0.0500	0.04992		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04952		mg/L		99	75 - 125
o-Xylene	0.0500	0.04798		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04924		mg/L		98	75 - 125
sec-Butylbenzene	0.0500	0.05003		mg/L		100	75 - 125
Styrene	0.0500	0.04770		mg/L		95	75 - 125
tert-Butylbenzene	0.0500	0.05030		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04853		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04946		mg/L		99	74 - 125
Tetrachloroethene	0.0500	0.04692		mg/L		94	71 - 125
Toluene	0.0500	0.04714		mg/L		94	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04777		mg/L		96	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04844		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04853		mg/L		97	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04971		mg/L		99	75 - 135
1,1,1-Trichloroethane	0.0500	0.04772		mg/L		95	75 - 125
1,1,2-Trichloroethane	0.0500	0.04823		mg/L		96	75 - 127
Trichloroethene	0.0500	0.04670		mg/L		93	62 - 137
Trichlorofluoromethane	0.0500	0.05187		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.04969		mg/L		99	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04997		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04926		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04960		mg/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-47222/4

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04756		mg/L		95	66 - 142	2	25
Bromobenzene	0.0500	0.04901		mg/L		98	75 - 125	2	25
Bromochloromethane	0.0500	0.04908		mg/L		98	60 - 140	2	25
Bromodichloromethane	0.0500	0.04869		mg/L		97	75 - 125	1	25
Bromoform	0.0500	0.04870		mg/L		97	75 - 125	1	25
Bromomethane	0.0500	0.05531		mg/L		111	60 - 140	3	25
2-Butanone	0.250	0.2484		mg/L		99	60 - 140	10	25
Carbon tetrachloride	0.0500	0.05261		mg/L		105	62 - 125	6	25
Chlorobenzene	0.0500	0.04743		mg/L		95	60 - 133	0	25
Chloroethane	0.0500	0.05426		mg/L		109	60 - 140	4	25
Chloroform	0.0500	0.04942		mg/L		99	70 - 130	1	25
Chloromethane	0.0500	0.05104		mg/L		102	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04914		mg/L		98	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04910		mg/L		98	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04898		mg/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04898		mg/L		98	74 - 125	2	25
Dibromochloromethane	0.0500	0.04795		mg/L		96	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05112		mg/L		102	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04784		mg/L		96	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04924		mg/L		98	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04876		mg/L		98	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04897		mg/L		98	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.05318		mg/L		106	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04895		mg/L		98	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.04970		mg/L		99	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04818		mg/L		96	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.04816		mg/L		96	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04817		mg/L		96	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04970		mg/L		99	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04920		mg/L		98	75 - 125	4	25
Ethylbenzene	0.0500	0.04807		mg/L		96	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05453		mg/L		109	75 - 125	8	25
Isopropylbenzene	0.0500	0.04877		mg/L		98	75 - 125	2	25
Methylene Chloride	0.0500	0.04744		mg/L		95	75 - 125	0	25
m,p-Xylenes	0.0500	0.04786		mg/L		96	75 - 125	1	25
MTBE	0.0500	0.05066		mg/L		101	65 - 135	5	25
Naphthalene	0.0500	0.05205		mg/L		104	70 - 130	6	25
n-Butylbenzene	0.0500	0.05156		mg/L		103	75 - 125	3	25
N-Propylbenzene	0.0500	0.04979		mg/L		100	75 - 125	1	25
o-Xylene	0.0500	0.04789		mg/L		96	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05060		mg/L		101	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05135		mg/L		103	75 - 125	3	25
Styrene	0.0500	0.04734		mg/L		95	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05055		mg/L		101	75 - 125	0	25
1,1,1,2-Tetrachloroethane	0.0500	0.04835		mg/L		97	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.05032		mg/L		101	74 - 125	2	25
Tetrachloroethene	0.0500	0.04870		mg/L		97	71 - 125	4	25
Toluene	0.0500	0.04681		mg/L		94	59 - 139	1	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-47222/4

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.04943		mg/L		99	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.04845		mg/L		97	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05189		mg/L		104	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05192		mg/L		104	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.04916		mg/L		98	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04869		mg/L		97	75 - 127	1	25
Trichloroethene	0.0500	0.04778		mg/L		96	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.05414		mg/L		108	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.05035		mg/L		101	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05003		mg/L		100	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04934		mg/L		99	60 - 140	0	25
Vinyl chloride	0.0500	0.05186		mg/L		104	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-47217/51

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			04/01/22 22:01	1
Chloride	<0.200	U	0.500	0.200 mg/L			04/01/22 22:01	1
Fluoride	<0.100	U	0.500	0.100 mg/L			04/01/22 22:01	1
Sulfate	0.2021	J	0.500	0.109 mg/L			04/01/22 22:01	1

Lab Sample ID: LCS 860-47217/52

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.617		mg/L		96	90 - 110
Chloride	10.0	10.36		mg/L		104	90 - 110
Fluoride	10.0	10.21		mg/L		102	90 - 110
Sulfate	10.0	9.746		mg/L		97	90 - 110

Lab Sample ID: LCS 860-47217/6

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.481		mg/L		95	90 - 110
Chloride	10.0	10.20		mg/L		102	90 - 110
Fluoride	10.0	10.51		mg/L		105	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-47217/6

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.811		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-47217/53

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	9.671		mg/L		97	90 - 110	1	20
Chloride	10.0	9.751		mg/L		98	90 - 110	6	20
Fluoride	10.0	10.37		mg/L		104	90 - 110	2	20
Sulfate	10.0	9.791		mg/L		98	90 - 110	0	20

Lab Sample ID: LCSD 860-47217/7

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	9.502		mg/L		95	90 - 110	0	20
Chloride	10.0	9.632		mg/L		96	90 - 110	6	20
Fluoride	10.0	10.53		mg/L		105	90 - 110	0	20
Sulfate	10.0	9.757		mg/L		98	90 - 110	1	20

Lab Sample ID: LLCS 860-47217/5

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.500	0.5573		mg/L		111	50 - 150
Chloride	0.500	0.5519		mg/L		110	50 - 150
Fluoride	0.500	0.5337		mg/L		107	50 - 150
Sulfate	0.500	0.5550		mg/L		111	50 - 150

Lab Sample ID: MB 860-47218/134

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			04/02/22 13:38	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			04/02/22 13:38	1

Lab Sample ID: MB 860-47218/51

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			04/01/22 22:01	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			04/01/22 22:01	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-47218/52

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Nitrate as N	10.0	9.847		mg/L		98	80 - 120	
Nitrite as N	5.00	5.021		mg/L		100	80 - 120	

Lab Sample ID: LCS 860-47218/6

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Nitrate as N	10.0	9.670		mg/L		97	80 - 120	
Nitrite as N	5.00	4.932		mg/L		99	80 - 120	

Lab Sample ID: LCSD 860-47218/136

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Nitrate as N	10.0	9.793		mg/L		98	80 - 120		0	20
Nitrite as N	5.00	4.983		mg/L		100	80 - 120		1	20

Lab Sample ID: LCSD 860-47218/7

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Nitrate as N	10.0	9.735		mg/L		97	80 - 120		1	20
Nitrite as N	5.00	4.965		mg/L		99	80 - 120		1	20

Lab Sample ID: LLCS 860-47218/4

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Nitrate as N	0.100	0.1358		mg/L		136	50 - 150	
Nitrite as N	0.100	0.1073		mg/L		107	50 - 150	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-47445/1-A

Matrix: Water

Analysis Batch: 47615

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.0293	U	0.200	0.0293 mg/L		04/04/22 09:00	04/04/22 20:31	1
Magnesium	<0.0500	U	0.200	0.0500 mg/L		04/04/22 09:00	04/04/22 20:31	1
Sodium	0.06841	J	0.500	0.0667 mg/L		04/04/22 09:00	04/04/22 20:31	1
SiO2	<0.0781	U	1.07	0.0781 mg/L		04/04/22 09:00	04/04/22 20:31	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 860-47445/1-A

Matrix: Water

Analysis Batch: 47686

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.107	U	0.500	0.107 mg/L		04/04/22 09:00	04/05/22 13:04	1

Lab Sample ID: LCS 860-47445/2-A

Matrix: Water

Analysis Batch: 47615

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.72		mg/L		99	85 - 115
Magnesium	25.0	24.24		mg/L		97	85 - 115
Sodium	25.0	24.71		mg/L		99	85 - 115
SiO2	21.4	21.26		mg/L		99	85 - 115

Lab Sample ID: LCS 860-47445/2-A

Matrix: Water

Analysis Batch: 47686

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	10.0	9.693		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-47445/3-A

Matrix: Water

Analysis Batch: 47615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.32		mg/L		101	85 - 115	2	20
Magnesium	25.0	25.06		mg/L		100	85 - 115	3	20
Sodium	25.0	24.57		mg/L		98	85 - 115	1	20
SiO2	21.4	21.14		mg/L		99	85 - 115	1	20

Lab Sample ID: LCSD 860-47445/3-A

Matrix: Water

Analysis Batch: 47686

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	10.0	9.689		mg/L		97	85 - 115	0	20

Lab Sample ID: LLCS 860-47445/4-A

Matrix: Water

Analysis Batch: 47686

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	0.500	0.4324	J	mg/L		86	50 - 150

Lab Sample ID: 880-13152-1 MS

Matrix: Water

Analysis Batch: 47615

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	257	E	25.0	278.3	E 4	mg/L		85	70 - 130
Magnesium	52.7		25.0	77.89		mg/L		101	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 880-13152-1 MS

Matrix: Water

Analysis Batch: 47615

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	77.2	B	25.0	101.6		mg/L		97	70 - 130
SiO2	65.3		21.4	86.76		mg/L		100	70 - 130

Lab Sample ID: 880-13152-1 MS

Matrix: Water

Analysis Batch: 47686

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	3.79		10.0	14.23		mg/L		104	70 - 130

Lab Sample ID: 880-13152-1 MSD

Matrix: Water

Analysis Batch: 47615

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	257	E	25.0	278.4	E 4	mg/L		86	70 - 130	0	20
Magnesium	52.7		25.0	77.93		mg/L		101	70 - 130	0	20
Sodium	77.2	B	25.0	101.6		mg/L		97	70 - 130	0	20
SiO2	65.3		21.4	87.16		mg/L		102	70 - 130	0	20

Lab Sample ID: 880-13152-1 MSD

Matrix: Water

Analysis Batch: 47686

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 47445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	3.79		10.0	14.15		mg/L		104	70 - 130	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-47363/3

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1

Lab Sample ID: LCS 860-47363/4

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	266.4		mg/L		107	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-47363/5

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	272.4		mg/L		109	85 - 115	2	20

Lab Sample ID: 880-13152-1 DU

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	641		655.5		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	641		655.5		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-47369/1

Matrix: Water

Analysis Batch: 47369

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	mg/L			04/01/22 17:37	1

Lab Sample ID: LCS 860-47369/2

Matrix: Water

Analysis Batch: 47369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1045		mg/L		105	80 - 120

Lab Sample ID: LCSD 860-47369/3

Matrix: Water

Analysis Batch: 47369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	990.0		mg/L		99	80 - 120	5	10

Lab Sample ID: LLCS 860-47369/25

Matrix: Water

Analysis Batch: 47369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		60	50 - 150

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 47222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	8260C	
MB 860-47222/10	Method Blank	Total/NA	Water	8260C	
LCS 860-47222/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-47222/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 47217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	300.0	
MB 860-47217/51	Method Blank	Total/NA	Water	300.0	
LCS 860-47217/52	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-47217/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47217/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-47217/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47217/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 47218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	300.0	
MB 860-47218/134	Method Blank	Total/NA	Water	300.0	
MB 860-47218/51	Method Blank	Total/NA	Water	300.0	
LCS 860-47218/52	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-47218/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47218/136	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-47218/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47218/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 47445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-47445/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-47445/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-47445/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-47445/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-13152-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-13152-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 47615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445
880-13152-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445
MB 860-47445/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	47445
LCS 860-47445/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	47445
LCSD 860-47445/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	47445
880-13152-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445
880-13152-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Metals

Analysis Batch: 47686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445
MB 860-47445/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	47445
LCS 860-47445/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	47445
LCSD 860-47445/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	47445
LLCS 860-47445/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	47445
880-13152-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445
880-13152-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	47445

General Chemistry

Analysis Batch: 47325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 47363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-47363/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-47363/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-47363/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-13152-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 47369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-47369/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-47369/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-47369/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-47369/25	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 47561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13152-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-13152-1
Date Collected: 03/31/22 09:50 Matrix: Water
Date Received: 03/31/22 15:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	47222	04/01/22 13:22	NA	XEN STF
Total/NA	Analysis	300.0		1	47217	04/02/22 00:35	A1S	XEN STF
Total/NA	Analysis	300.0		1	47218	04/02/22 00:35	A1S	XEN STF
Total Recoverable	Prep	200.7			47445	04/04/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	47615	04/04/22 20:42	AV	XEN STF
Total Recoverable	Prep	200.7			47445	04/04/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	47615	04/04/22 21:00	AV	XEN STF
Total Recoverable	Prep	200.7			47445	04/04/22 09:00	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	47686	04/05/22 13:15	AV	XEN STF
Total/NA	Analysis	SM 1030E		1	47561	04/04/22 17:20	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	47363	04/01/22 15:07	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	47369	04/01/22 17:37	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	47325	04/01/22 15:09	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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
200.7 Rev 4.4	200.7	Water	SiO2
8260C		Water	Total BTEX
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
200.7 Rev 4.4	Metals (ICP)	EPA	XEN STF
SM 1030E	Cation Anion Balance	SM	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
200.7	Preparation, Total Recoverable Metals	EPA	XEN STF
5030C	Purge and Trap	SW846	XEN STF

Protocol References:

EPA = US Environmental Protection Agency

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobb NM - 03B1417001

Job ID: 880-13152-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13152-1	Levey Well	Water	03/31/22 09:50	03/31/22 15:54

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



Work Order No.:

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Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name:		Leverly Well	Hobbs NM	Turn Around	
Project Number:		03B1417001		Routine ☐	
P.O. Number:		03B1417001		Rush: 24 hr	
Sampler's Name:		Aaron Marquez		Due Date:	
SAMPLE RECEIPT					
Temperature (°C):		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒
Received intact:		(Yes) No	Thermometer ID		
Cooler Custody Seals:		Yes No N/A	Correction Factor:		
Sample Custody Seals:		Yes No N/A	Total Containers:		
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth
Leverly Well		W	3-31-22	0950	-
Number of Containers					
VOCs					
Anions: F, Cl, SO ₄ , B					
Cations: Ca, K, Mg, Na, Si					
pH					
Alkalinity					
TDS					
880-13152 Chain of Custody					
TAT starts the day received by the lab, if received by 4:30pm					
Sample Comments					
24 hr					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13152-1

SDG Number: Hobbs NM

Login Number: 13152

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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.	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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13152-1

SDG Number: Hobbs NM

Login Number: 13152

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 04/01/22 11:26 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12027-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
3/8/2022 7:04:36 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.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: South Hobbs - 03B1417002

Laboratory Job ID: 880-12027-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Job ID: 880-12027-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-12027-1

Receipt

The samples were received on 3/3/2022 3:54 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 1.1°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-43703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12027-1

Date Collected: 03/03/22 10:10

Matrix: Water

Date Received: 03/03/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 11:39	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/07/22 11:39	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/07/22 11:39	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/07/22 11:39	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/07/22 11:39	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/07/22 11:39	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/07/22 11:39	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/07/22 11:39	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/07/22 11:39	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/07/22 11:39	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/07/22 11:39	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/07/22 11:39	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 11:39	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/07/22 11:39	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/07/22 11:39	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/07/22 11:39	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/07/22 11:39	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/07/22 11:39	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/07/22 11:39	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/07/22 11:39	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/07/22 11:39	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 11:39	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/07/22 11:39	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/07/22 11:39	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/07/22 11:39	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/07/22 11:39	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/07/22 11:39	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/07/22 11:39	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/07/22 11:39	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/07/22 11:39	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/07/22 11:39	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 11:39	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/07/22 11:39	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/07/22 11:39	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/07/22 11:39	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/07/22 11:39	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/07/22 11:39	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/07/22 11:39	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/07/22 11:39	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/07/22 11:39	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/07/22 11:39	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 11:39	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/07/22 11:39	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/07/22 11:39	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/07/22 11:39	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/07/22 11:39	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 11:39	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 11:39	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/07/22 11:39	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12027-1

Date Collected: 03/03/22 10:10

Matrix: Water

Date Received: 03/03/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/07/22 11:39	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 11:39	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 11:39	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/07/22 11:39	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/07/22 11:39	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/07/22 11:39	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/07/22 11:39	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/07/22 11:39	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/07/22 11:39	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/07/22 11:39	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/07/22 11:39	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/07/22 11:39	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/07/22 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		03/07/22 11:39	1
Dibromofluoromethane (Surr)	104		75 - 131		03/07/22 11:39	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		03/07/22 11:39	1
Toluene-d8 (Surr)	98		80 - 117		03/07/22 11:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.935	U	4.73	0.935 mg/L			02/28/22 14:31	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	<0.935	U	4.73	0.935 mg/L		03/04/22 16:40	03/04/22 19:52	1
Diesel Range Organics (Over C10-C28)	<0.935	U	4.73	0.935 mg/L		03/04/22 16:40	03/04/22 19:52	1
Oil Range Organics (Over C28-C36)	<0.902	U	4.73	0.902 mg/L		03/04/22 16:40	03/04/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135	03/04/22 16:40	03/04/22 19:52	1
o-Terphenyl	82		70 - 135	03/04/22 16:40	03/04/22 19:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		0.500	0.200 mg/L			03/04/22 21:22	1
Nitrate as N	0.198		0.100	0.0391 mg/L			03/04/22 21:22	1
Fluoride	0.531		0.500	0.100 mg/L			03/04/22 21:22	1
Nitrite as N	0.181		0.100	0.0293 mg/L			03/04/22 21:22	1
Sulfate	45.9		0.500	0.109 mg/L			03/04/22 21:22	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	360		4.00	4.00 mg/L			03/07/22 13:10	1
Bicarbonate Alkalinity as CaCO3	360		4.00	4.00 mg/L			03/07/22 13:10	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/07/22 13:10	1
Carbon dioxide	407			mg/L			03/08/22 10:19	1
Carbon Dioxide, Free	90.5			mg/L			03/08/22 10:19	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Client Sample ID: MW-1

Lab Sample ID: 880-12027-1

Date Collected: 03/03/22 10:10

Matrix: Water

Date Received: 03/03/22 15:54

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF		SU			03/05/22 09:35	1
Temperature	18.2	HF		Celsius			03/05/22 09:35	1
Sulfide	<0.495	U	5.00	0.495 mg/L			03/07/22 18:33	1

Client Sample ID: MW-2

Lab Sample ID: 880-12027-2

Date Collected: 03/03/22 11:25

Matrix: Water

Date Received: 03/03/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0370		0.00100	0.000214 mg/L			03/07/22 12:00	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/07/22 12:00	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/07/22 12:00	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/07/22 12:00	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/07/22 12:00	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/07/22 12:00	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/07/22 12:00	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/07/22 12:00	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/07/22 12:00	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/07/22 12:00	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/07/22 12:00	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/07/22 12:00	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 12:00	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/07/22 12:00	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/07/22 12:00	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/07/22 12:00	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/07/22 12:00	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/07/22 12:00	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/07/22 12:00	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/07/22 12:00	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/07/22 12:00	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 12:00	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/07/22 12:00	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/07/22 12:00	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/07/22 12:00	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/07/22 12:00	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/07/22 12:00	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/07/22 12:00	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/07/22 12:00	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/07/22 12:00	1
Ethylbenzene	0.0378		0.00100	0.000515 mg/L			03/07/22 12:00	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 12:00	1
Isopropylbenzene	0.0152		0.00100	0.000161 mg/L			03/07/22 12:00	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/07/22 12:00	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/07/22 12:00	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/07/22 12:00	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/07/22 12:00	1
N-Propylbenzene	0.00456		0.00100	0.000179 mg/L			03/07/22 12:00	1
o-Xylene	0.0160		0.00100	0.000192 mg/L			03/07/22 12:00	1
p-Cymene (p-Isopropyltoluene)	0.00117		0.00100	0.000233 mg/L			03/07/22 12:00	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-12027-2

Date Collected: 03/03/22 11:25

Matrix: Water

Date Received: 03/03/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00153		0.00100	0.000199 mg/L			03/07/22 12:00	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/07/22 12:00	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/07/22 12:00	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/07/22 12:00	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/07/22 12:00	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 12:00	1
Toluene	0.00673		0.00100	0.000500 mg/L			03/07/22 12:00	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/07/22 12:00	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/07/22 12:00	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 12:00	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 12:00	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/07/22 12:00	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/07/22 12:00	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/07/22 12:00	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/07/22 12:00	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/07/22 12:00	1
1,2,4-Trimethylbenzene	0.0496		0.00100	0.000252 mg/L			03/07/22 12:00	1
1,3,5-Trimethylbenzene	0.0126		0.00100	0.000279 mg/L			03/07/22 12:00	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/07/22 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		03/07/22 12:00	1
Dibromofluoromethane (Surr)	105		75 - 131		03/07/22 12:00	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		03/07/22 12:00	1
Toluene-d8 (Surr)	98		80 - 117		03/07/22 12:00	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.225		0.0500	0.00165 mg/L			03/07/22 12:20	5
Xylenes, Total	0.244		0.0500	0.00165 mg/L			03/07/22 12:20	5
Total BTEX	0.342		0.0500	0.00107 mg/L			03/07/22 12:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/07/22 12:20	5
Dibromofluoromethane (Surr)	105		75 - 131		03/07/22 12:20	5
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		03/07/22 12:20	5
Toluene-d8 (Surr)	99		80 - 117		03/07/22 12:20	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.86	J	4.60	0.909 mg/L			02/28/22 14:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.86	J	4.60	0.909 mg/L		03/04/22 16:40	03/07/22 12:22	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909 mg/L		03/04/22 16:40	03/07/22 12:22	1
Oil Range Organics (Over C28-C36)	<0.877	U	4.60	0.877 mg/L		03/04/22 16:40	03/07/22 12:22	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Client Sample ID: MW-2
Date Collected: 03/03/22 11:25
Date Received: 03/03/22 15:54

Lab Sample ID: 880-12027-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 135	03/04/22 16:40	03/07/22 12:22	1
o-Terphenyl	124		70 - 135	03/04/22 16:40	03/07/22 12:22	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		0.500	0.200 mg/L			03/04/22 21:34	1
Nitrate as N	0.776		0.100	0.0391 mg/L			03/04/22 21:34	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/04/22 21:34	1
Nitrite as N	0.992		0.100	0.0293 mg/L			03/04/22 21:34	1
Sulfate	112		0.500	0.109 mg/L			03/04/22 21:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1360		4.00	4.00 mg/L			03/07/22 13:27	1
Bicarbonate Alkalinity as CaCO3	1360		4.00	4.00 mg/L			03/07/22 13:27	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/07/22 13:27	1
Carbon dioxide	3360			mg/L			03/08/22 10:19	1
Carbon Dioxide, Free	2160			mg/L			03/08/22 10:19	1
pH	6.1	HF		SU			03/05/22 09:35	1
Temperature	18.1	HF		Celsius			03/05/22 09:35	1
Sulfide	<0.495	U	5.00	0.495 mg/L			03/07/22 18:33	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-21917-H-7 MS	Matrix Spike	98	102	96	100
860-21917-H-7 MSD	Matrix Spike Duplicate	100	103	98	99
880-12027-1	MW-1	106	104	103	98
880-12027-2	MW-2	103	105	104	98
880-12027-2 - DL	MW-2	101	105	102	99
LCS 860-43878/3	Lab Control Sample	99	101	96	100
LCSD 860-43878/4	Lab Control Sample Dup	101	102	96	99
MB 860-43878/10	Method Blank	100	104	100	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-12027-1	MW-1	91	82
880-12027-1 MS	MW-1	94	87
880-12027-2 - RA	MW-2	104	124
LCS 860-43844/2-A	Lab Control Sample	94	83
LCSD 860-43844/3-A	Lab Control Sample Dup	94	87
MB 860-43844/1-A	Method Blank	93	84

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-43878/10

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 10:38	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/07/22 10:38	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/07/22 10:38	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/07/22 10:38	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/07/22 10:38	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/07/22 10:38	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/07/22 10:38	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/07/22 10:38	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/07/22 10:38	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/07/22 10:38	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/07/22 10:38	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/07/22 10:38	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/07/22 10:38	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/07/22 10:38	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/07/22 10:38	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/07/22 10:38	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/07/22 10:38	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/07/22 10:38	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/07/22 10:38	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/07/22 10:38	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/07/22 10:38	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 10:38	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/07/22 10:38	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/07/22 10:38	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/07/22 10:38	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/07/22 10:38	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/07/22 10:38	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/07/22 10:38	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/07/22 10:38	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/07/22 10:38	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/07/22 10:38	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 10:38	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/07/22 10:38	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/07/22 10:38	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/07/22 10:38	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/07/22 10:38	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/07/22 10:38	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/07/22 10:38	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/07/22 10:38	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/07/22 10:38	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/07/22 10:38	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/07/22 10:38	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/07/22 10:38	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/07/22 10:38	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/07/22 10:38	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/07/22 10:38	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 10:38	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/07/22 10:38	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-43878/10

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/07/22 10:38	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/07/22 10:38	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 10:38	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/07/22 10:38	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/07/22 10:38	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/07/22 10:38	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/07/22 10:38	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/07/22 10:38	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/07/22 10:38	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/07/22 10:38	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/07/22 10:38	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/07/22 10:38	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/07/22 10:38	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/07/22 10:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124				03/07/22 10:38	1
Dibromofluoromethane (Surr)	104		75 - 131				03/07/22 10:38	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144				03/07/22 10:38	1
Toluene-d8 (Surr)	100		80 - 117				03/07/22 10:38	1

Lab Sample ID: LCS 860-43878/3

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05068		mg/L		101	66 - 142
Bromobenzene	0.0500	0.05020		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05010		mg/L		100	60 - 140
Bromodichloromethane	0.0500	0.05260		mg/L		105	75 - 125
Bromoform	0.0500	0.05004		mg/L		100	75 - 125
Bromomethane	0.0500	0.04976		mg/L		100	60 - 140
2-Butanone	0.250	0.2107		mg/L		84	60 - 140
Carbon tetrachloride	0.0500	0.04381		mg/L		88	62 - 125
Chlorobenzene	0.0500	0.05018		mg/L		100	60 - 133
Chloroethane	0.0500	0.04334		mg/L		87	60 - 140
Chloroform	0.0500	0.05039		mg/L		101	70 - 130
Chloromethane	0.0500	0.04763		mg/L		95	60 - 140
2-Chlorotoluene	0.0500	0.05017		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05081		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04948		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04858		mg/L		97	74 - 125
Dibromochloromethane	0.0500	0.04965		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04597		mg/L		92	59 - 125
1,2-Dibromoethane	0.0500	0.04697		mg/L		94	73 - 125
1,2-Dichlorobenzene	0.0500	0.04925		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.05052		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05048		mg/L		101	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-43878/3

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.03597		mg/L		72	70 - 130
1,1-Dichloroethane	0.0500	0.05071		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.04696		mg/L		94	68 - 127
1,1-Dichloroethene	0.0500	0.04366		mg/L		87	59 - 172
1,2-Dichloropropane	0.0500	0.04972		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.04653		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05054		mg/L		101	75 - 125
1,1-Dichloropropene	0.0500	0.04963		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.05047		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04696		mg/L		94	75 - 125
Isopropylbenzene	0.0500	0.04979		mg/L		100	75 - 125
Methylene Chloride	0.0500	0.04190		mg/L		84	75 - 125
m,p-Xylenes	0.0500	0.05007		mg/L		100	75 - 125
MTBE	0.0500	0.04549		mg/L		91	65 - 135
Naphthalene	0.0500	0.04405		mg/L		88	70 - 130
n-Butylbenzene	0.0500	0.04830		mg/L		97	75 - 125
N-Propylbenzene	0.0500	0.05120		mg/L		102	75 - 125
o-Xylene	0.0500	0.05044		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04999		mg/L		100	75 - 125
sec-Butylbenzene	0.0500	0.04899		mg/L		98	75 - 125
Styrene	0.0500	0.04473		mg/L		89	75 - 125
tert-Butylbenzene	0.0500	0.04834		mg/L		97	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04608		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04648		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.04510		mg/L		90	71 - 125
Toluene	0.0500	0.05038		mg/L		101	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04917		mg/L		98	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05048		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04564		mg/L		91	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04753		mg/L		95	75 - 135
1,1,1-Trichloroethane	0.0500	0.05140		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04658		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04758		mg/L		95	62 - 137
Trichlorofluoromethane	0.0500	0.04514		mg/L		90	60 - 140
1,2,3-Trichloropropane	0.0500	0.04500		mg/L		90	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05083		mg/L		102	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05072		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.04195		mg/L		84	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-43878/4

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05173		mg/L		103	66 - 142	2	25
Bromobenzene	0.0500	0.05075		mg/L		102	75 - 125	1	25
Bromochloromethane	0.0500	0.05140		mg/L		103	60 - 140	3	25
Bromodichloromethane	0.0500	0.05279		mg/L		106	75 - 125	0	25
Bromoform	0.0500	0.05051		mg/L		101	75 - 125	1	25
Bromomethane	0.0500	0.04831		mg/L		97	60 - 140	3	25
2-Butanone	0.250	0.2204		mg/L		88	60 - 140	5	25
Carbon tetrachloride	0.0500	0.04575		mg/L		92	62 - 125	4	25
Chlorobenzene	0.0500	0.05031		mg/L		101	60 - 133	0	25
Chloroethane	0.0500	0.04367		mg/L		87	60 - 140	1	25
Chloroform	0.0500	0.05212		mg/L		104	70 - 130	3	25
Chloromethane	0.0500	0.04971		mg/L		99	60 - 140	4	25
2-Chlorotoluene	0.0500	0.05130		mg/L		103	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05123		mg/L		102	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05005		mg/L		100	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04974		mg/L		99	74 - 125	2	25
Dibromochloromethane	0.0500	0.05076		mg/L		102	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04644		mg/L		93	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04775		mg/L		96	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04955		mg/L		99	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05144		mg/L		103	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05085		mg/L		102	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03673		mg/L		73	70 - 130	2	25
1,1-Dichloroethane	0.0500	0.05178		mg/L		104	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.04816		mg/L		96	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04628		mg/L		93	59 - 172	6	25
1,2-Dichloropropane	0.0500	0.05109		mg/L		102	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04649		mg/L		93	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.05141		mg/L		103	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05180		mg/L		104	75 - 125	4	25
Ethylbenzene	0.0500	0.05169		mg/L		103	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04921		mg/L		98	75 - 125	5	25
Isopropylbenzene	0.0500	0.05115		mg/L		102	75 - 125	3	25
Methylene Chloride	0.0500	0.04325		mg/L		86	75 - 125	3	25
m,p-Xylenes	0.0500	0.05127		mg/L		103	75 - 125	2	25
MTBE	0.0500	0.04695		mg/L		94	65 - 135	3	25
Naphthalene	0.0500	0.04443		mg/L		89	70 - 130	1	25
n-Butylbenzene	0.0500	0.05082		mg/L		102	75 - 125	5	25
N-Propylbenzene	0.0500	0.05234		mg/L		105	75 - 125	2	25
o-Xylene	0.0500	0.05042		mg/L		101	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05210		mg/L		104	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05134		mg/L		103	75 - 125	5	25
Styrene	0.0500	0.04464		mg/L		89	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05091		mg/L		102	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04642		mg/L		93	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04681		mg/L		94	74 - 125	1	25
Tetrachloroethene	0.0500	0.04577		mg/L		92	71 - 125	1	25
Toluene	0.0500	0.05064		mg/L		101	59 - 139	1	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-43878/4

Matrix: Water

Analysis Batch: 43878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05100		mg/L		102	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05027		mg/L		101	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.04641		mg/L		93	75 - 137	2	25
1,2,4-Trichlorobenzene	0.0500	0.04856		mg/L		97	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.05295		mg/L		106	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04698		mg/L		94	75 - 127	1	25
Trichloroethene	0.0500	0.04995		mg/L		100	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.04667		mg/L		93	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04557		mg/L		91	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05187		mg/L		104	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05233		mg/L		105	60 - 140	3	25
Vinyl chloride	0.0500	0.04343		mg/L		87	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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

Lab Sample ID: MB 860-43844/1-A

Matrix: Water

Analysis Batch: 43826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43844

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		03/04/22 16:40	03/04/22 18:54	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		03/04/22 16:40	03/04/22 18:54	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		03/04/22 16:40	03/04/22 18:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135	03/04/22 16:40	03/04/22 18:54	1
o-Terphenyl	84		70 - 135	03/04/22 16:40	03/04/22 18:54	1

Lab Sample ID: LCS 860-43844/2-A

Matrix: Water

Analysis Batch: 43826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	92.30		mg/L		92	70 - 135
Diesel Range Organics (Over C10-C28)	99.4	78.47		mg/L		79	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 135
o-Terphenyl	83		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-43844/3-A

Matrix: Water

Analysis Batch: 43826

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.9	99.28		mg/L		99	70 - 135	7	35
Diesel Range Organics (Over C10-C28)	99.4	85.55		mg/L		86	70 - 135	9	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	94		70 - 135						
o-Terphenyl	87		70 - 135						

Lab Sample ID: 880-12027-1 MS

Matrix: Water

Analysis Batch: 43826

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 43844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<0.935	U	93.6	96.02		mg/L		103	70 - 135
Diesel Range Organics (Over C10-C28)	<0.935	U	93.2	83.05		mg/L		89	70 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 135						
o-Terphenyl	87		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-43703/3

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/04/22 11:45	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/04/22 11:45	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/04/22 11:45	1

Lab Sample ID: MB 860-43703/51

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/04/22 18:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/04/22 18:57	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/04/22 18:57	1

Lab Sample ID: LCS 860-43703/4

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.00		mg/L		100	90 - 110
Fluoride	10.0	10.16		mg/L		102	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-43703/4

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.933		mg/L		99	90 - 110

Lab Sample ID: LCS 860-43703/52

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.958		mg/L		100	90 - 110
Fluoride	10.0	10.16		mg/L		102	90 - 110
Sulfate	10.0	9.884		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-43703/5

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.966		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.16		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.914		mg/L		99	90 - 110	0	20

Lab Sample ID: LCSD 860-43703/53

Matrix: Water

Analysis Batch: 43703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.955		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.15		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.897		mg/L		99	90 - 110	0	20

Lab Sample ID: MB 860-43704/3

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/04/22 11:45	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/04/22 11:45	1

Lab Sample ID: MB 860-43704/51

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/04/22 18:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/04/22 18:57	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-43704/4

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.365		mg/L		94	80 - 120
Nitrite as N	5.00	4.650		mg/L		93	80 - 120

Lab Sample ID: LCS 860-43704/52

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.369		mg/L		94	80 - 120
Nitrite as N	5.00	4.644		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-43704/5

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.366		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.645		mg/L		93	80 - 120	0	20

Lab Sample ID: LCSD 860-43704/53

Matrix: Water

Analysis Batch: 43704

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.363		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.642		mg/L		93	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-44021/3

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			03/07/22 12:11	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/07/22 12:11	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/07/22 12:11	1

Lab Sample ID: LCS 860-44021/4

Matrix: Water

Analysis Batch: 44021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	265.2		mg/L		106	85 - 115

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QC Sample Results

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-44021/5

Matrix: Water

Analysis Batch: 44201

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	268.3		mg/L		107	85 - 115	1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-44201/9

Matrix: Water

Analysis Batch: 44201

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495 mg/L			03/07/22 18:33	1

Lab Sample ID: LCS 860-44201/10

Matrix: Water

Analysis Batch: 44201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfide	50.0	48.80		mg/L		98	80 - 120	

Lab Sample ID: LCSD 860-44201/11

Matrix: Water

Analysis Batch: 44201

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	50.0	49.00		mg/L		98	80 - 120	0	20

Lab Sample ID: 880-12027-1 MS

Matrix: Water

Analysis Batch: 44201

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfide	<0.495	U	50.0	50.80		mg/L		102	80 - 120	

Lab Sample ID: 880-12027-1 MSD

Matrix: Water

Analysis Batch: 44201

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	51.00		mg/L		102	80 - 120	0	20

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QC Association Summary

Client: Ensolum

Job ID: 880-12027-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 43878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	8260C	
880-12027-2	MW-2	Total/NA	Water	8260C	
880-12027-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-43878/10	Method Blank	Total/NA	Water	8260C	
LCS 860-43878/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-43878/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 41402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	8015 NM	
880-12027-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 43826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	8015B NM	43844
MB 860-43844/1-A	Method Blank	Total/NA	Water	8015B NM	43844
LCS 860-43844/2-A	Lab Control Sample	Total/NA	Water	8015B NM	43844
LCSD 860-43844/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	43844
880-12027-1 MS	MW-1	Total/NA	Water	8015B NM	43844

Prep Batch: 43844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-12027-2 - RA	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-43844/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-43844/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-43844/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-12027-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 43933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-2 - RA	MW-2	Total/NA	Water	8015B NM	43844

HPLC/IC

Analysis Batch: 43703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	300.0	
880-12027-2	MW-2	Total/NA	Water	300.0	
MB 860-43703/3	Method Blank	Total/NA	Water	300.0	
MB 860-43703/51	Method Blank	Total/NA	Water	300.0	
LCS 860-43703/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-43703/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-43703/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-43703/53	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 43704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	300.0	
880-12027-2	MW-2	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

HPLC/IC (Continued)

Analysis Batch: 43704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-43704/3	Method Blank	Total/NA	Water	300.0	
MB 860-43704/51	Method Blank	Total/NA	Water	300.0	
LCS 860-43704/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-43704/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-43704/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-43704/53	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 43863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-12027-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 44021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	SM 2320B	
880-12027-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-44021/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-44021/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-44021/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 44095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-12027-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 44201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12027-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12027-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-44201/9	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-44201/10	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-44201/11	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-12027-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12027-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Client Sample ID: MW-1
Date Collected: 03/03/22 10:10
Date Received: 03/03/22 15:54

Lab Sample ID: 880-12027-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43878	03/07/22 11:39	NA	XEN STF
Total/NA	Analysis	8015 NM		1	41402	02/28/22 14:31	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			43844	03/04/22 16:40	IS	XEN STF
Total/NA	Analysis	8015B NM		1	43826	03/04/22 19:52	T1S	XEN STF
Total/NA	Analysis	300.0		1	43703	03/04/22 21:22	WP	XEN STF
Total/NA	Analysis	300.0		1	43704	03/04/22 21:22	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	44021	03/07/22 13:10	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	44095	03/08/22 10:19	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	43863	03/05/22 09:35	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	44201	03/07/22 18:33	YVD	XEN STF

Client Sample ID: MW-2
Date Collected: 03/03/22 11:25
Date Received: 03/03/22 15:54

Lab Sample ID: 880-12027-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43878	03/07/22 12:00	NA	XEN STF
Total/NA	Analysis	8260C	DL	5	43878	03/07/22 12:20	NA	XEN STF
Total/NA	Analysis	8015 NM		1	41402	02/28/22 14:31	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		43844	03/04/22 16:40	IS	XEN STF
Total/NA	Analysis	8015B NM	RA	1	43933	03/07/22 12:22	DD	XEN STF
Total/NA	Analysis	300.0		1	43703	03/04/22 21:34	WP	XEN STF
Total/NA	Analysis	300.0		1	43704	03/04/22 21:34	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	44021	03/07/22 13:27	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	44095	03/08/22 10:19	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	43863	03/05/22 09:35	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	44201	03/07/22 18:33	YVD	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12027-1	MW-1	Water	03/03/22 10:10	03/03/22 15:54
880-12027-2	MW-2	Water	03/03/22 11:25	03/03/22 15:54

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8600) Tampa, FL (813-620-2000)

Work Order No: 12021

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@ensolum.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund
State of Project:	
Reporting Level II	☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADAPT ☐ Other

Project Name:	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine ☐	
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name:	Aaron Marquez	Due Date	

SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	12/11	Thermometer ID			
Received Intact:	Yes ☒ No ☐	Correction Factor:	-128		
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:	1		
Sample Custody Seals:	Yes ☐ No ☒				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Dissolved Carbon Dioxide 4500 CO2 c	Dissolved Sulfide SW-846 #376.2	VOC SW-846 #8260	TPH EPA Method #8015	Chloride EPA Method #846 300	pH EPA SW-846 Method 150.1	Sample Comments
MMW-1	GW	3-5-20	1010	75'	7	X	X	X	X	X	X	24 Hr
MMW-2	GW	3-7-20	1125	85'	7	X	X	X	X	X	X	
880-12027 Chain of Custody												

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn			
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U			
1631 / 245.1 / 7470 / 7471 Hg					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
3/8/22	3/8/22	1554			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12027-1

Login Number: 12027

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12027-1

Login Number: 12027

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 03/04/22 03:59 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12246-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
3/14/2022 6:48:02 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
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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: South Hobbs - 03B1417002

Laboratory Job ID: 880-12246-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Job ID: 880-12246-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-12246-1

Receipt

The samples were received on 3/9/2022 2:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12246-1

Date Collected: 03/09/22 10:55

Matrix: Water

Date Received: 03/09/22 14:27

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 18:51	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/10/22 18:51	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/10/22 18:51	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/10/22 18:51	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/10/22 18:51	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/10/22 18:51	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/10/22 18:51	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/10/22 18:51	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/10/22 18:51	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/10/22 18:51	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/10/22 18:51	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/10/22 18:51	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 18:51	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/10/22 18:51	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/10/22 18:51	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/10/22 18:51	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/10/22 18:51	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/10/22 18:51	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/10/22 18:51	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/10/22 18:51	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/10/22 18:51	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 18:51	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/10/22 18:51	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/10/22 18:51	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/10/22 18:51	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/10/22 18:51	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/10/22 18:51	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/10/22 18:51	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/10/22 18:51	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/10/22 18:51	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/10/22 18:51	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 18:51	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/10/22 18:51	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/10/22 18:51	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/11/22 13:03	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/10/22 18:51	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/10/22 18:51	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/10/22 18:51	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/10/22 18:51	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/10/22 18:51	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/10/22 18:51	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 18:51	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/10/22 18:51	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/10/22 18:51	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/10/22 18:51	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/10/22 18:51	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 18:51	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 18:51	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/10/22 18:51	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Client Sample ID: MW-1

Lab Sample ID: 880-12246-1

Date Collected: 03/09/22 10:55

Matrix: Water

Date Received: 03/09/22 14:27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/10/22 18:51	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 18:51	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 18:51	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/10/22 18:51	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/10/22 18:51	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/10/22 18:51	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/10/22 18:51	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/10/22 18:51	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/11/22 13:03	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/10/22 18:51	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/10/22 18:51	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/11/22 13:03	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/10/22 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/10/22 18:51	1
4-Bromofluorobenzene (Surr)	100		74 - 124		03/11/22 13:03	1
Dibromofluoromethane (Surr)	99		75 - 131		03/10/22 18:51	1
Dibromofluoromethane (Surr)	99		75 - 131		03/11/22 13:03	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		03/10/22 18:51	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		03/11/22 13:03	1
Toluene-d8 (Surr)	100		80 - 117		03/10/22 18:51	1
Toluene-d8 (Surr)	104		80 - 117		03/11/22 13:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.874	U	4.42	0.874 mg/L			03/08/22 17:49	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	<0.874	U	4.42	0.874 mg/L		03/11/22 11:08	03/11/22 12:51	1
Diesel Range Organics (Over C10-C28)	<0.874	U	4.42	0.874 mg/L		03/11/22 11:08	03/11/22 12:51	1
Oil Range Organics (Over C28-C36)	<0.844	U	4.42	0.844 mg/L		03/11/22 11:08	03/11/22 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135			03/11/22 11:08	03/11/22 12:51	1
o-Terphenyl	120		70 - 135			03/11/22 11:08	03/11/22 12:51	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		0.500	0.200 mg/L			03/10/22 19:28	1
Nitrate as N	0.170		0.100	0.0391 mg/L			03/10/22 19:28	1
Fluoride	0.454 J		0.500	0.100 mg/L			03/10/22 19:28	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/10/22 19:28	1
Sulfate	45.4		0.500	0.109 mg/L			03/10/22 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	323		4.00	4.00 mg/L			03/11/22 12:50	1

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Client Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12246-1

Date Collected: 03/09/22 10:55

Matrix: Water

Date Received: 03/09/22 14:27

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	323		4.00	4.00 mg/L			03/11/22 12:50	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/11/22 12:50	1
Carbon dioxide	325			mg/L			03/14/22 15:50	1
Carbon Dioxide, Free	40.7			mg/L			03/14/22 15:50	1
pH	7.2	HF		SU			03/11/22 16:04	1
Temperature	18.1	HF		Celsius			03/11/22 16:04	1
Sulfide	<0.495	U	5.00	0.495 mg/L			03/11/22 18:07	1

Client Sample ID: MW-2

Lab Sample ID: 880-12246-2

Date Collected: 03/09/22 11:55

Matrix: Water

Date Received: 03/09/22 14:27

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0182		0.00100	0.000214 mg/L			03/10/22 19:10	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/10/22 19:10	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/10/22 19:10	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/10/22 19:10	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/10/22 19:10	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/10/22 19:10	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/10/22 19:10	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/10/22 19:10	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/10/22 19:10	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/10/22 19:10	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/10/22 19:10	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/10/22 19:10	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 19:10	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/10/22 19:10	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/10/22 19:10	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/10/22 19:10	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/10/22 19:10	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/10/22 19:10	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/10/22 19:10	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/10/22 19:10	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/10/22 19:10	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 19:10	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/10/22 19:10	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/10/22 19:10	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/10/22 19:10	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/10/22 19:10	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/10/22 19:10	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/10/22 19:10	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/10/22 19:10	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/10/22 19:10	1
Ethylbenzene	0.0186		0.00100	0.000515 mg/L			03/10/22 19:10	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 19:10	1
Isopropylbenzene	0.00640		0.00100	0.000161 mg/L			03/10/22 19:10	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/10/22 19:10	1
m,p-Xylenes	0.0857		0.0100	0.000330 mg/L			03/10/22 19:10	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/10/22 19:10	1

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Client Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-12246-2

Date Collected: 03/09/22 11:55

Matrix: Water

Date Received: 03/09/22 14:27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/10/22 19:10	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/10/22 19:10	1
N-Propylbenzene	0.00211		0.00100	0.000179 mg/L			03/10/22 19:10	1
o-Xylene	0.0131		0.00100	0.000192 mg/L			03/10/22 19:10	1
p-Cymene (p-Isopropyltoluene)	0.000683	J	0.00100	0.000233 mg/L			03/10/22 19:10	1
sec-Butylbenzene	0.000910	J	0.00100	0.000199 mg/L			03/10/22 19:10	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/10/22 19:10	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/10/22 19:10	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/10/22 19:10	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/10/22 19:10	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 19:10	1
Toluene	0.00790		0.00100	0.000500 mg/L			03/10/22 19:10	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/10/22 19:10	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/10/22 19:10	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 19:10	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 19:10	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/10/22 19:10	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/10/22 19:10	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/10/22 19:10	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/10/22 19:10	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/10/22 19:10	1
1,2,4-Trimethylbenzene	0.0240		0.00100	0.000252 mg/L			03/10/22 19:10	1
1,3,5-Trimethylbenzene	0.00659		0.00100	0.000279 mg/L			03/10/22 19:10	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/10/22 19:10	1
Xylenes, Total	0.0988		0.0100	0.000330 mg/L			03/10/22 19:10	1
Total BTEX	0.143		0.0100	0.000214 mg/L			03/10/22 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		03/10/22 19:10	1
Dibromofluoromethane (Surr)	98		75 - 131		03/10/22 19:10	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		03/10/22 19:10	1
Toluene-d8 (Surr)	99		80 - 117		03/10/22 19:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.77	J	4.79	0.947 mg/L			03/08/22 17:49	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	1.77	J	4.79	0.947 mg/L		03/11/22 11:08	03/11/22 13:30	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947 mg/L		03/11/22 11:08	03/11/22 13:30	1
Oil Range Organics (Over C28-C36)	<0.914	U	4.79	0.914 mg/L		03/11/22 11:08	03/11/22 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135	03/11/22 11:08	03/11/22 13:30	1
o-Terphenyl	123		70 - 135	03/11/22 11:08	03/11/22 13:30	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Client Sample ID: MW-2
Date Collected: 03/09/22 11:55
Date Received: 03/09/22 14:27

Lab Sample ID: 880-12246-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		0.500	0.200	mg/L			03/10/22 19:39	1
Nitrate as N	0.789		0.100	0.0391	mg/L			03/10/22 19:39	1
Fluoride	<0.100	U	0.500	0.100	mg/L			03/10/22 19:39	1
Nitrite as N	2.12		0.100	0.0293	mg/L			03/10/22 19:39	1
Sulfate	133		0.500	0.109	mg/L			03/10/22 19:39	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1330		4.00	4.00	mg/L			03/11/22 13:06	1
Bicarbonate Alkalinity as CaCO3	1330		4.00	4.00	mg/L			03/11/22 13:06	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/11/22 13:06	1
Carbon dioxide	2860				mg/L			03/14/22 15:50	1
Carbon Dioxide, Free	1680				mg/L			03/14/22 15:50	1
pH	6.2	HF			SU			03/11/22 16:04	1
Temperature	18.4	HF			Celsius			03/11/22 16:04	1
Sulfide	<0.495	U	5.00	0.495	mg/L			03/11/22 18:07	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-22279-H-1 MS	Matrix Spike	103	98	98	102
880-12246-1	MW-1	101	99	100	100
880-12246-1	MW-1	100	99	102	104
880-12246-1 MS	MW-1	99	98	92	101
880-12246-2	MW-2	103	98	100	99
LCS 860-44415/1010	Lab Control Sample	98	101	100	101
LCS 860-44611/3	Lab Control Sample	97	97	93	103
LCSD 860-44415/11	Lab Control Sample Dup	97	101	98	99
LCSD 860-44611/4	Lab Control Sample Dup	98	97	94	102
MB 860-44415/18	Method Blank	100	98	101	100
MB 860-44611/10	Method Blank	100	98	100	103
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-12246-1	MW-1	105	120
880-12246-1 MS	MW-1	119	117
880-12246-2	MW-2	105	123
LCS 860-44651/2-A	Lab Control Sample	123	120
LCSD 860-44651/3-A	Lab Control Sample Dup	115	112
MB 860-44651/1-A	Method Blank	100	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-44415/18

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 14:06	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/10/22 14:06	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/10/22 14:06	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/10/22 14:06	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/10/22 14:06	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/10/22 14:06	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/10/22 14:06	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/10/22 14:06	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/10/22 14:06	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/10/22 14:06	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/10/22 14:06	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/10/22 14:06	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/10/22 14:06	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/10/22 14:06	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/10/22 14:06	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/10/22 14:06	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/10/22 14:06	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/10/22 14:06	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/10/22 14:06	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/10/22 14:06	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/10/22 14:06	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 14:06	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/10/22 14:06	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/10/22 14:06	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/10/22 14:06	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/10/22 14:06	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/10/22 14:06	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/10/22 14:06	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/10/22 14:06	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/10/22 14:06	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/10/22 14:06	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 14:06	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/10/22 14:06	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/10/22 14:06	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/10/22 14:06	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/10/22 14:06	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/10/22 14:06	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/10/22 14:06	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/10/22 14:06	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/10/22 14:06	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/10/22 14:06	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/10/22 14:06	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/10/22 14:06	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/10/22 14:06	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/10/22 14:06	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/10/22 14:06	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 14:06	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/10/22 14:06	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-44415/18

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/10/22 14:06	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/10/22 14:06	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 14:06	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/10/22 14:06	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/10/22 14:06	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/10/22 14:06	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/10/22 14:06	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/10/22 14:06	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/10/22 14:06	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/10/22 14:06	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/10/22 14:06	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/10/22 14:06	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/10/22 14:06	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/10/22 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		03/10/22 14:06	1
Dibromofluoromethane (Surr)	98		75 - 131		03/10/22 14:06	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		03/10/22 14:06	1
Toluene-d8 (Surr)	100		80 - 117		03/10/22 14:06	1

Lab Sample ID: LCS 860-44415/1010

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05450		mg/L		109	66 - 142
Bromobenzene	0.0500	0.05567		mg/L		111	75 - 125
Bromochloromethane	0.0500	0.05473		mg/L		109	60 - 140
Bromodichloromethane	0.0500	0.05704		mg/L		114	75 - 125
Bromoform	0.0500	0.04816		mg/L		96	75 - 125
Bromomethane	0.0500	0.05377		mg/L		108	60 - 140
2-Butanone	0.250	0.2535		mg/L		101	60 - 140
Carbon tetrachloride	0.0500	0.05067		mg/L		101	62 - 125
Chlorobenzene	0.0500	0.05542		mg/L		111	60 - 133
Chloroethane	0.0500	0.04940		mg/L		99	60 - 140
Chloroform	0.0500	0.05428		mg/L		109	70 - 130
Chloromethane	0.0500	0.04709		mg/L		94	60 - 140
2-Chlorotoluene	0.0500	0.05514		mg/L		110	73 - 125
4-Chlorotoluene	0.0500	0.05526		mg/L		111	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05422		mg/L		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05658		mg/L		113	74 - 125
Dibromochloromethane	0.0500	0.05053		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05160		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.05580		mg/L		112	73 - 125
1,2-Dichlorobenzene	0.0500	0.05562		mg/L		111	75 - 125
1,3-Dichlorobenzene	0.0500	0.05591		mg/L		112	75 - 125
1,4-Dichlorobenzene	0.0500	0.05523		mg/L		110	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-44415/1010

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.05339		mg/L		107	70 - 130
1,1-Dichloroethane	0.0500	0.05484		mg/L		110	72 - 125
1,2-Dichloroethane	0.0500	0.05341		mg/L		107	68 - 127
1,1-Dichloroethene	0.0500	0.05580		mg/L		112	59 - 172
1,2-Dichloropropane	0.0500	0.05506		mg/L		110	74 - 125
1,3-Dichloropropane	0.0500	0.05438		mg/L		109	75 - 125
2,2-Dichloropropane	0.0500	0.05703		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05579		mg/L		112	75 - 125
Ethylbenzene	0.0500	0.05675		mg/L		114	75 - 125
Hexachlorobutadiene	0.0500	0.05361		mg/L		107	75 - 125
Isopropylbenzene	0.0500	0.05698		mg/L		114	75 - 125
Methylene Chloride	0.0500	0.05243		mg/L		105	75 - 125
m,p-Xylenes	0.0500	0.05635		mg/L		113	75 - 125
MTBE	0.0500	0.05265		mg/L		105	65 - 135
Naphthalene	0.0500	0.05948		mg/L		119	70 - 130
n-Butylbenzene	0.0500	0.05635		mg/L		113	75 - 125
N-Propylbenzene	0.0500	0.05563		mg/L		111	75 - 125
o-Xylene	0.0500	0.05660		mg/L		113	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05714		mg/L		114	75 - 125
sec-Butylbenzene	0.0500	0.05632		mg/L		113	75 - 125
Styrene	0.0500	0.05717		mg/L		114	75 - 125
tert-Butylbenzene	0.0500	0.05636		mg/L		113	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05982		mg/L		120	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05344		mg/L		107	74 - 125
Tetrachloroethene	0.0500	0.05586		mg/L		112	71 - 125
Toluene	0.0500	0.05630		mg/L		113	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05581		mg/L		112	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05664		mg/L		113	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06346		mg/L		127	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05752		mg/L		115	75 - 135
1,1,1-Trichloroethane	0.0500	0.05553		mg/L		111	75 - 125
1,1,2-Trichloroethane	0.0500	0.05402		mg/L		108	75 - 127
Trichloroethene	0.0500	0.05508		mg/L		110	62 - 137
Trichlorofluoromethane	0.0500	0.05485		mg/L		110	60 - 140
1,2,3-Trichloropropane	0.0500	0.05295		mg/L		106	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05573		mg/L		111	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05580		mg/L		112	60 - 140
Vinyl chloride	0.0500	0.05181		mg/L		104	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-44415/11

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05231		mg/L		105	66 - 142	4	25
Bromobenzene	0.0500	0.05149		mg/L		103	75 - 125	8	25
Bromochloromethane	0.0500	0.05378		mg/L		108	60 - 140	2	25
Bromodichloromethane	0.0500	0.05501		mg/L		110	75 - 125	4	25
Bromoform	0.0500	0.04709		mg/L		94	75 - 125	2	25
Bromomethane	0.0500	0.05645		mg/L		113	60 - 140	5	25
2-Butanone	0.250	0.2500		mg/L		100	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04974		mg/L		99	62 - 125	2	25
Chlorobenzene	0.0500	0.05228		mg/L		105	60 - 133	6	25
Chloroethane	0.0500	0.04838		mg/L		97	60 - 140	2	25
Chloroform	0.0500	0.05297		mg/L		106	70 - 130	2	25
Chloromethane	0.0500	0.04957		mg/L		99	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05070		mg/L		101	73 - 125	8	25
4-Chlorotoluene	0.0500	0.05090		mg/L		102	74 - 125	8	25
cis-1,2-Dichloroethene	0.0500	0.05324		mg/L		106	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05465		mg/L		109	74 - 125	3	25
Dibromochloromethane	0.0500	0.04854		mg/L		97	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04745		mg/L		95	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05277		mg/L		106	73 - 125	6	25
1,2-Dichlorobenzene	0.0500	0.05130		mg/L		103	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05116		mg/L		102	75 - 125	9	25
1,4-Dichlorobenzene	0.0500	0.05069		mg/L		101	75 - 125	9	25
Dichlorodifluoromethane	0.0500	0.05289		mg/L		106	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.05384		mg/L		108	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.05204		mg/L		104	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05436		mg/L		109	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.05314		mg/L		106	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05168		mg/L		103	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05502		mg/L		110	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05410		mg/L		108	75 - 125	3	25
Ethylbenzene	0.0500	0.05336		mg/L		107	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04925		mg/L		98	75 - 125	8	25
Isopropylbenzene	0.0500	0.05386		mg/L		108	75 - 125	6	25
Methylene Chloride	0.0500	0.05101		mg/L		102	75 - 125	3	25
m,p-Xylenes	0.0500	0.05344		mg/L		107	75 - 125	5	25
MTBE	0.0500	0.05170		mg/L		103	65 - 135	2	25
Naphthalene	0.0500	0.05136		mg/L		103	70 - 130	15	25
n-Butylbenzene	0.0500	0.05211		mg/L		104	75 - 125	8	25
N-Propylbenzene	0.0500	0.05122		mg/L		102	75 - 125	8	25
o-Xylene	0.0500	0.05340		mg/L		107	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05234		mg/L		105	75 - 125	9	25
sec-Butylbenzene	0.0500	0.05203		mg/L		104	75 - 125	8	25
Styrene	0.0500	0.05445		mg/L		109	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05154		mg/L		103	75 - 125	9	25
1,1,1,2-Tetrachloroethane	0.0500	0.05664		mg/L		113	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.04952		mg/L		99	74 - 125	8	25
Tetrachloroethene	0.0500	0.05242		mg/L		105	71 - 125	6	25
Toluene	0.0500	0.05278		mg/L		106	59 - 139	6	25

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-44415/11

Matrix: Water

Analysis Batch: 44415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
trans-1,2-Dichloroethene	0.0500	0.05458		mg/L		109	75 - 125	2	25	
trans-1,3-Dichloropropene	0.0500	0.05415		mg/L		108	66 - 125	5	25	
1,2,3-Trichlorobenzene	0.0500	0.05245		mg/L		105	75 - 137	19	25	
1,2,4-Trichlorobenzene	0.0500	0.05151		mg/L		103	75 - 135	11	25	
1,1,1-Trichloroethane	0.0500	0.05383		mg/L		108	75 - 125	3	25	
1,1,2-Trichloroethane	0.0500	0.05158		mg/L		103	75 - 127	5	25	
Trichloroethene	0.0500	0.05303		mg/L		106	62 - 137	4	25	
Trichlorofluoromethane	0.0500	0.05308		mg/L		106	60 - 140	3	25	
1,2,3-Trichloropropane	0.0500	0.04918		mg/L		98	75 - 125	7	25	
1,2,4-Trimethylbenzene	0.0500	0.05130		mg/L		103	75 - 125	8	25	
1,3,5-Trimethylbenzene	0.0500	0.05131		mg/L		103	60 - 140	8	25	
Vinyl chloride	0.0500	0.05122		mg/L		102	60 - 140	1	25	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Lab Sample ID: MB 860-44611/10

Matrix: Water

Analysis Batch: 44611

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000214	U	0.00100	0.000214			03/11/22 12:44	1
Bromobenzene	<0.000300	U	0.00100	0.000300			03/11/22 12:44	1
Bromochloromethane	<0.000209	U	0.00100	0.000209			03/11/22 12:44	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231			03/11/22 12:44	1
Bromoform	<0.000630	U	0.00500	0.000630			03/11/22 12:44	1
Bromomethane	<0.00105	U	0.00500	0.00105			03/11/22 12:44	1
2-Butanone	<0.00270	U	0.0500	0.00270			03/11/22 12:44	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423			03/11/22 12:44	1
Chlorobenzene	<0.000159	U	0.00100	0.000159			03/11/22 12:44	1
Chloroethane	<0.000433	U	0.0100	0.000433			03/11/22 12:44	1
Chloroform	<0.000259	U	0.00100	0.000259			03/11/22 12:44	1
Chloromethane	<0.000318	U	0.0100	0.000318			03/11/22 12:44	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214			03/11/22 12:44	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183			03/11/22 12:44	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174			03/11/22 12:44	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690			03/11/22 12:44	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739			03/11/22 12:44	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319			03/11/22 12:44	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337			03/11/22 12:44	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236			03/11/22 12:44	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197			03/11/22 12:44	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199			03/11/22 12:44	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316			03/11/22 12:44	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244			03/11/22 12:44	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-44611/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 44611

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/11/22 12:44	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/11/22 12:44	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/11/22 12:44	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/11/22 12:44	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/11/22 12:44	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/11/22 12:44	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/11/22 12:44	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/11/22 12:44	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/11/22 12:44	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/11/22 12:44	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/11/22 12:44	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/11/22 12:44	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/11/22 12:44	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/11/22 12:44	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/11/22 12:44	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/11/22 12:44	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/11/22 12:44	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/11/22 12:44	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/11/22 12:44	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/11/22 12:44	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/11/22 12:44	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/11/22 12:44	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/11/22 12:44	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/11/22 12:44	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/11/22 12:44	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/11/22 12:44	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/11/22 12:44	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/11/22 12:44	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/11/22 12:44	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/11/22 12:44	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/11/22 12:44	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/11/22 12:44	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/11/22 12:44	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/11/22 12:44	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/11/22 12:44	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/11/22 12:44	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/11/22 12:44	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/11/22 12:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		03/11/22 12:44	1
Dibromofluoromethane (Surr)	98		75 - 131		03/11/22 12:44	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		03/11/22 12:44	1
Toluene-d8 (Surr)	103		80 - 117		03/11/22 12:44	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-44611/3

Matrix: Water

Analysis Batch: 44611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Benzene	0.0500	0.05091		mg/L		102	66 - 142
Bromobenzene	0.0500	0.05452		mg/L		109	75 - 125
Bromochloromethane	0.0500	0.05278		mg/L		106	60 - 140
Bromodichloromethane	0.0500	0.05638		mg/L		113	75 - 125
Bromoform	0.0500	0.04807		mg/L		96	75 - 125
Bromomethane	0.0500	0.04103		mg/L		82	60 - 140
2-Butanone	0.250	0.2444		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.04470		mg/L		89	62 - 125
Chlorobenzene	0.0500	0.05434		mg/L		109	60 - 133
Chloroethane	0.0500	0.04583		mg/L		92	60 - 140
Chloroform	0.0500	0.05230		mg/L		105	70 - 130
Chloromethane	0.0500	0.04223		mg/L		84	60 - 140
2-Chlorotoluene	0.0500	0.05379		mg/L		108	73 - 125
4-Chlorotoluene	0.0500	0.05418		mg/L		108	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05052		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05508		mg/L		110	74 - 125
Dibromochloromethane	0.0500	0.05072		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05184		mg/L		104	59 - 125
1,2-Dibromoethane	0.0500	0.05427		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05685		mg/L		114	75 - 125
1,3-Dichlorobenzene	0.0500	0.05559		mg/L		111	75 - 125
1,4-Dichlorobenzene	0.0500	0.05623		mg/L		112	75 - 125
Dichlorodifluoromethane	0.0500	0.04703		mg/L		94	70 - 130
1,1-Dichloroethane	0.0500	0.05327		mg/L		107	72 - 125
1,2-Dichloroethane	0.0500	0.05158		mg/L		103	68 - 127
1,1-Dichloroethene	0.0500	0.04856		mg/L		97	59 - 172
1,2-Dichloropropane	0.0500	0.05409		mg/L		108	74 - 125
1,3-Dichloropropane	0.0500	0.05394		mg/L		108	75 - 125
2,2-Dichloropropane	0.0500	0.05360		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.04748		mg/L		95	75 - 125
Ethylbenzene	0.0500	0.05425		mg/L		109	75 - 125
Hexachlorobutadiene	0.0500	0.05229		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05425		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.04951		mg/L		99	75 - 125
m,p-Xylenes	0.0500	0.05379		mg/L		108	75 - 125
MTBE	0.0500	0.05169		mg/L		103	65 - 135
Naphthalene	0.0500	0.06142		mg/L		123	70 - 130
n-Butylbenzene	0.0500	0.05456		mg/L		109	75 - 125
N-Propylbenzene	0.0500	0.05346		mg/L		107	75 - 125
o-Xylene	0.0500	0.05400		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05545		mg/L		111	75 - 125
sec-Butylbenzene	0.0500	0.05391		mg/L		108	75 - 125
Styrene	0.0500	0.05562		mg/L		111	75 - 125
tert-Butylbenzene	0.0500	0.05479		mg/L		110	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05977		mg/L		120	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05313		mg/L		106	74 - 125
Tetrachloroethene	0.0500	0.05071		mg/L		101	71 - 125
Toluene	0.0500	0.05365		mg/L		107	59 - 139

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-44611/3

Matrix: Water

Analysis Batch: 44611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	0.0500	0.04862		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05601		mg/L		112	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06683		mg/L		134	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.06030		mg/L		121	75 - 135
1,1,1-Trichloroethane	0.0500	0.05199		mg/L		104	75 - 125
1,1,2-Trichloroethane	0.0500	0.05466		mg/L		109	75 - 127
Trichloroethene	0.0500	0.05097		mg/L		102	62 - 137
Trichlorofluoromethane	0.0500	0.05161		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.05187		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05474		mg/L		109	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05391		mg/L		108	60 - 140
Vinyl chloride	0.0500	0.04649		mg/L		93	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	103		80 - 117

Lab Sample ID: LCSD 860-44611/4

Matrix: Water

Analysis Batch: 44611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04892		mg/L		98	66 - 142	4	25
Bromobenzene	0.0500	0.05135		mg/L		103	75 - 125	6	25
Bromochloromethane	0.0500	0.05187		mg/L		104	60 - 140	2	25
Bromodichloromethane	0.0500	0.05474		mg/L		109	75 - 125	3	25
Bromoform	0.0500	0.04812		mg/L		96	75 - 125	0	25
Bromomethane	0.0500	0.04522		mg/L		90	60 - 140	10	25
2-Butanone	0.250	0.2627		mg/L		105	60 - 140	7	25
Carbon tetrachloride	0.0500	0.04470		mg/L		89	62 - 125	0	25
Chlorobenzene	0.0500	0.05121		mg/L		102	60 - 133	6	25
Chloroethane	0.0500	0.04487		mg/L		90	60 - 140	2	25
Chloroform	0.0500	0.05118		mg/L		102	70 - 130	2	25
Chloromethane	0.0500	0.04149		mg/L		83	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04975		mg/L		99	73 - 125	8	25
4-Chlorotoluene	0.0500	0.05009		mg/L		100	74 - 125	8	25
cis-1,2-Dichloroethene	0.0500	0.04913		mg/L		98	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05352		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.04910		mg/L		98	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05278		mg/L		106	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.05327		mg/L		107	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05289		mg/L		106	75 - 125	7	25
1,3-Dichlorobenzene	0.0500	0.05208		mg/L		104	75 - 125	7	25
1,4-Dichlorobenzene	0.0500	0.05161		mg/L		103	75 - 125	9	25
Dichlorodifluoromethane	0.0500	0.04645		mg/L		93	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.05072		mg/L		101	72 - 125	5	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-44611/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 44611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	0.0500	0.04955		mg/L		99	68 - 127	4	25
1,1-Dichloroethene	0.0500	0.04731		mg/L		95	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.05210		mg/L		104	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.05302		mg/L		106	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05249		mg/L		105	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04744		mg/L		95	75 - 125	0	25
Ethylbenzene	0.0500	0.05130		mg/L		103	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.05016		mg/L		100	75 - 125	4	25
Isopropylbenzene	0.0500	0.05154		mg/L		103	75 - 125	5	25
Methylene Chloride	0.0500	0.04793		mg/L		96	75 - 125	3	25
m,p-Xylenes	0.0500	0.05074		mg/L		101	75 - 125	6	25
MTBE	0.0500	0.05255		mg/L		105	65 - 135	2	25
Naphthalene	0.0500	0.05860		mg/L		117	70 - 130	5	25
n-Butylbenzene	0.0500	0.05139		mg/L		103	75 - 125	6	25
N-Propylbenzene	0.0500	0.04958		mg/L		99	75 - 125	8	25
o-Xylene	0.0500	0.05152		mg/L		103	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05213		mg/L		104	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05096		mg/L		102	75 - 125	6	25
Styrene	0.0500	0.05283		mg/L		106	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05156		mg/L		103	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05678		mg/L		114	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.05302		mg/L		106	74 - 125	0	25
Tetrachloroethene	0.0500	0.04811		mg/L		96	71 - 125	5	25
Toluene	0.0500	0.05107		mg/L		102	59 - 139	5	25
trans-1,2-Dichloroethene	0.0500	0.04662		mg/L		93	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05483		mg/L		110	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.06087		mg/L		122	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.05445		mg/L		109	75 - 135	10	25
1,1,1-Trichloroethane	0.0500	0.05039		mg/L		101	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.05303		mg/L		106	75 - 127	3	25
Trichloroethene	0.0500	0.04921		mg/L		98	62 - 137	4	25
Trichlorofluoromethane	0.0500	0.04892		mg/L		98	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.05190		mg/L		104	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05090		mg/L		102	75 - 125	7	25
1,3,5-Trimethylbenzene	0.0500	0.05040		mg/L		101	60 - 140	7	25
Vinyl chloride	0.0500	0.04524		mg/L		90	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
Toluene-d8 (Surr)	102		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-12246-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 44611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.000214	U	0.0500	0.04996		mg/L		100	66 - 142
Bromobenzene	<0.000300	U	0.0500	0.05308		mg/L		106	75 - 125
Bromochloromethane	<0.000209	U	0.0500	0.05179		mg/L		104	60 - 140
Bromodichloromethane	<0.000231	U	0.0500	0.05585		mg/L		112	75 - 125
Bromoform	<0.000630	U	0.0500	0.04299		mg/L		86	75 - 125
Bromomethane	<0.00105	U	0.0500	0.04115		mg/L		82	60 - 140
2-Butanone	<0.00270	U	0.250	0.2299		mg/L		92	60 - 140
Carbon tetrachloride	<0.000423	U	0.0500	0.04669		mg/L		93	62 - 125
Chlorobenzene	<0.000159	U	0.0500	0.05251		mg/L		105	60 - 133
Chloroethane	<0.000433	U	0.0500	0.04480		mg/L		90	60 - 140
Chloroform	<0.000259	U	0.0500	0.05144		mg/L		103	70 - 130
Chloromethane	<0.000318	U	0.0500	0.04012		mg/L		80	60 - 140
2-Chlorotoluene	<0.000214	U	0.0500	0.05221		mg/L		104	73 - 125
4-Chlorotoluene	<0.000183	U	0.0500	0.05278		mg/L		106	74 - 125
cis-1,2-Dichloroethene	<0.000174	U	0.0500	0.05005		mg/L		100	75 - 125
cis-1,3-Dichloropropene	<0.000690	U	0.0500	0.05322		mg/L		106	74 - 125
Dibromochloromethane	<0.000739	U	0.0500	0.04779		mg/L		96	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.04862		mg/L		97	59 - 125
1,2-Dibromoethane	<0.000337	U	0.0500	0.05136		mg/L		103	73 - 125
1,2-Dichlorobenzene	<0.000236	U	0.0500	0.05453		mg/L		109	75 - 125
1,3-Dichlorobenzene	<0.000197	U	0.0500	0.05398		mg/L		108	75 - 125
1,4-Dichlorobenzene	<0.000199	U	0.0500	0.05366		mg/L		107	75 - 125
Dichlorodifluoromethane	<0.000316	U	0.0500	0.04778		mg/L		96	70 - 130
1,1-Dichloroethane	<0.000244	U	0.0500	0.05322		mg/L		106	72 - 125
1,2-Dichloroethane	<0.000285	U	0.0500	0.04944		mg/L		99	68 - 127
1,1-Dichloroethene	<0.000216	U	0.0500	0.04887		mg/L		98	59 - 172
1,2-Dichloropropane	<0.000396	U	0.0500	0.05201		mg/L		104	74 - 125
1,3-Dichloropropane	<0.000439	U	0.0500	0.05158		mg/L		103	75 - 125
2,2-Dichloropropane	<0.000360	U	0.0500	0.05437		mg/L		109	75 - 125
1,1-Dichloropropene	<0.000481	U	0.0500	0.04876		mg/L		98	75 - 125
Ethylbenzene	<0.000515	U	0.0500	0.05271		mg/L		105	75 - 125
Hexachlorobutadiene	<0.00200	U	0.0500	0.05361		mg/L		107	75 - 125
Isopropylbenzene	<0.000161	U	0.0500	0.05338		mg/L		107	75 - 125
Methylene Chloride	<0.00191	U	0.0500	0.04821		mg/L		96	75 - 125
m,p-Xylenes	<0.000330	U	0.0500	0.05245		mg/L		105	75 - 125
MTBE	<0.000571	U	0.0500	0.05030		mg/L		101	65 - 135
Naphthalene	<0.00200	U	0.0500	0.05880		mg/L		118	70 - 130
n-Butylbenzene	<0.000286	U	0.0500	0.05448		mg/L		109	75 - 125
N-Propylbenzene	<0.000179	U	0.0500	0.05278		mg/L		106	75 - 125
o-Xylene	<0.000192	U	0.0500	0.05249		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.0500	0.05498		mg/L		110	75 - 125
sec-Butylbenzene	<0.000199	U	0.0500	0.05398		mg/L		108	75 - 125
Styrene	<0.000623	U	0.0500	0.05353		mg/L		107	75 - 125
tert-Butylbenzene	<0.000195	U	0.0500	0.05411		mg/L		108	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U	0.0500	0.05725		mg/L		114	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U	0.0500	0.05036		mg/L		101	74 - 125
Tetrachloroethene	<0.000500	U	0.0500	0.05034		mg/L		101	71 - 125
Toluene	<0.000500	U	0.0500	0.05210		mg/L		104	59 - 139

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QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-12246-1 MS

Matrix: Water

Analysis Batch: 44611

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	<0.000256	U	0.0500	0.04810		mg/L		96	75 - 125
trans-1,3-Dichloropropene	<0.000752	U	0.0500	0.05369		mg/L		107	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U	0.0500	0.06468		mg/L		129	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U	0.0500	0.05794		mg/L		116	75 - 135
1,1,1-Trichloroethane	<0.000504	U	0.0500	0.05250		mg/L		105	75 - 125
1,1,2-Trichloroethane	<0.000228	U	0.0500	0.05241		mg/L		105	75 - 127
Trichloroethene	<0.000424	U	0.0500	0.05048		mg/L		101	62 - 137
Trichlorofluoromethane	<0.000245	U	0.0500	0.05337		mg/L		107	60 - 140
1,2,3-Trichloropropane	<0.000283	U	0.0500	0.04803		mg/L		96	75 - 125
1,2,4-Trimethylbenzene	<0.000252	U	0.0500	0.05295		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	<0.000279	U	0.0500	0.05261		mg/L		105	70 - 125
Vinyl chloride	<0.000234	U	0.0500	0.04780		mg/L		96	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		74 - 124						
Dibromofluoromethane (Surr)	98		75 - 131						
1,2-Dichloroethane-d4 (Surr)	92		63 - 144						
Toluene-d8 (Surr)	101		80 - 117						

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

Lab Sample ID: MB 860-44651/1-A

Matrix: Water

Analysis Batch: 44626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44651

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		03/11/22 11:08	03/11/22 12:32	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		03/11/22 11:08	03/11/22 12:32	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		03/11/22 11:08	03/11/22 12:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135			03/11/22 11:08	03/11/22 12:32	1
o-Terphenyl	114		70 - 135			03/11/22 11:08	03/11/22 12:32	1

Lab Sample ID: LCS 860-44651/2-A

Matrix: Water

Analysis Batch: 44626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	101	100.4		mg/L		99	70 - 135
Diesel Range Organics (Over C10-C28)	99.6	97.44		mg/L		98	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	123		70 - 135				
o-Terphenyl	120		70 - 135				

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-44651/3-A

Matrix: Water

Analysis Batch: 44626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	101	96.56		mg/L		96	70 - 135	4	35
Diesel Range Organics (Over C10-C28)	99.6	93.54		mg/L		94	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	115		70 - 135						
o-Terphenyl	112		70 - 135						

Lab Sample ID: 880-12246-1 MS

Matrix: Water

Analysis Batch: 44626

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 44651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.874	U	95.8	95.31		mg/L		99	70 - 135		
Diesel Range Organics (Over C10-C28)	<0.874	U	94.5	93.03		mg/L		98	70 - 135		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	119		70 - 135								
o-Terphenyl	117		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-44481/3

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/10/22 12:41	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/10/22 12:41	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/10/22 12:41	1

Lab Sample ID: LCS 860-44481/4

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.654		mg/L		97	90 - 110		
Fluoride	10.0	10.48		mg/L		105	90 - 110		
Sulfate	10.0	10.09		mg/L		101	90 - 110		

Lab Sample ID: LCSD 860-44481/5

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.574		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.47		mg/L		105	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-44481/5

Matrix: Water

Analysis Batch: 44481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.06		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 860-44482/3

Matrix: Water

Analysis Batch: 44482

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/10/22 12:41	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/10/22 12:41	1

Lab Sample ID: LCS 860-44482/4

Matrix: Water

Analysis Batch: 44482

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.353		mg/L		94	80 - 120
Nitrite as N	5.00	4.917		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-44482/5

Matrix: Water

Analysis Batch: 44482

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.369		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.926		mg/L		99	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-44726/3

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			03/11/22 11:51	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/11/22 11:51	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/11/22 11:51	1

Lab Sample ID: LCS 860-44726/4

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	268.3		mg/L		107	85 - 115

Lab Sample ID: LCSD 860-44726/5

Matrix: Water

Analysis Batch: 44726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	272.3		mg/L		109	85 - 115	1	20

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-44735/1 Matrix: Water Analysis Batch: 44735										Client Sample ID: Method Blank Prep Type: Total/NA		
Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac			
Sulfide	<0.495	U	5.00		0.495 mg/L			03/11/22 18:07	1			

Lab Sample ID: LCS 860-44735/2 Matrix: Water Analysis Batch: 44735										Client Sample ID: Lab Control Sample Prep Type: Total/NA		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
Sulfide			50.0	51.40		mg/L		103	80 - 120			

Lab Sample ID: LCSD 860-44735/3 Matrix: Water Analysis Batch: 44735										Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA		
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Sulfide			50.0	51.60		mg/L		103	80 - 120	0	20	

Lab Sample ID: 880-12246-1 MS Matrix: Water Analysis Batch: 44735										Client Sample ID: MW-1 Prep Type: Total/NA		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits			
Sulfide	<0.495	U	50.0	50.00		mg/L		100	80 - 120			

Lab Sample ID: 880-12246-1 MSD Matrix: Water Analysis Batch: 44735										Client Sample ID: MW-1 Prep Type: Total/NA		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Sulfide	<0.495	U	50.0	49.80		mg/L		100	80 - 120	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 44415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	8260C	
880-12246-2	MW-2	Total/NA	Water	8260C	
MB 860-44415/18	Method Blank	Total/NA	Water	8260C	
LCS 860-44415/1010	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-44415/11	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 44611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	8260C	
MB 860-44611/10	Method Blank	Total/NA	Water	8260C	
LCS 860-44611/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-44611/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-12246-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 44206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	8015 NM	
880-12246-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 44626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	8015B NM	44651
880-12246-2	MW-2	Total/NA	Water	8015B NM	44651
MB 860-44651/1-A	Method Blank	Total/NA	Water	8015B NM	44651
LCS 860-44651/2-A	Lab Control Sample	Total/NA	Water	8015B NM	44651
LCSD 860-44651/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	44651
880-12246-1 MS	MW-1	Total/NA	Water	8015B NM	44651

Prep Batch: 44651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-12246-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-44651/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-44651/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-44651/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-12246-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 44481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	300.0	
880-12246-2	MW-2	Total/NA	Water	300.0	
MB 860-44481/3	Method Blank	Total/NA	Water	300.0	
LCS 860-44481/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-44481/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 44482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 44482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-2	MW-2	Total/NA	Water	300.0	
MB 860-44482/3	Method Blank	Total/NA	Water	300.0	
LCS 860-44482/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-44482/5	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 44705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-12246-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 44726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	SM 2320B	
880-12246-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-44726/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-44726/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-44726/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 44735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12246-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-44735/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-44735/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-44735/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-12246-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12246-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 44895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12246-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-12246-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Client Sample ID: MW-1
Date Collected: 03/09/22 10:55
Date Received: 03/09/22 14:27

Lab Sample ID: 880-12246-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	44415	03/10/22 18:51	EM	XEN STF
Total/NA	Analysis	8260C		1	44611	03/11/22 13:03	EM	XEN STF
Total/NA	Analysis	8015 NM		1	44206	03/08/22 17:49	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			44651	03/11/22 11:08	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	44626	03/11/22 12:51	DD	XEN STF
Total/NA	Analysis	300.0		1	44481	03/10/22 19:28	WP	XEN STF
Total/NA	Analysis	300.0		1	44482	03/10/22 19:28	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	44726	03/11/22 12:50	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	44895	03/14/22 15:50	DP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	44705	03/11/22 16:04	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	44735	03/11/22 18:07	YVD	XEN STF

Client Sample ID: MW-2
Date Collected: 03/09/22 11:55
Date Received: 03/09/22 14:27

Lab Sample ID: 880-12246-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	44415	03/10/22 19:10	EM	XEN STF
Total/NA	Analysis	8015 NM		1	44206	03/08/22 17:49	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			44651	03/11/22 11:08	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	44626	03/11/22 13:30	DD	XEN STF
Total/NA	Analysis	300.0		1	44481	03/10/22 19:39	WP	XEN STF
Total/NA	Analysis	300.0		1	44482	03/10/22 19:39	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	44726	03/11/22 13:06	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	44895	03/14/22 15:50	DP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	44705	03/11/22 16:04	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	44735	03/11/22 18:07	YVD	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum

Job ID: 880-12246-1

Project/Site: South Hobbs - 03B1417002

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12246-1	MW-1	Water	03/09/22 10:55	03/09/22 14:27
880-12246-2	MW-2	Water	03/09/22 11:55	03/09/22 14:27

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



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta GA (770) 449-8800 Tampa, FL (813) 620-2000

Work Order No: 12246

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Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@ensolum.com

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

Project Name:	South Hobbs	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	03B1417002	Routine ☐			
P.O. Number:	03B1417002	Rush 24 Hr			
Sampler's Name:	Shane Diller	Due Date			

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	13.9/13.8	Thermometer ID	TBB		
Received Intact:	Yes ☒ No ☐	Correction Factor:	-1		
Cooler Custody Seals:	Yes ☒ No ☐	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolve	Dissovl	VOC SW	TPH EPA	Chloride	pH EPA	Sample Comments														
MW-1	GW	3-9-22	1055	-	7	X	X	X	X	X	X	24 Hr														
MW-2	GW	3-9-22	1155	-	7	X	X	X	X	X	X															
880-12246 Chain of Custody 																										

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		3/9/22			
		14:27			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12246-1

Login Number: 12246

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12246-1

Login Number: 12246

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/10/22 04:18 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12511-1
Client Project/Site: South Hobbs - 03B1417002
Sampling Event: South Hobbs

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

Attn: Beaux Jennings

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

Authorized for release by:
3/23/2022 9:35:31 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.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: South Hobbs - 03B1417002

Laboratory Job ID: 880-12511-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Midland

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Job ID: 880-12511-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12511-1

Receipt

The samples were received on 3/16/2022 3:51 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 16.2°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-45447 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 8260C: The matrix spike (MS) for analytical batch 860-45444 exceeded control limits for the following analyte(s): Dichloro difluoromethane, Note that this analyte is a known poor performer when analyzed using this method.

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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 860-45411.

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 for analytical batch 860-45381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12511-1

Date Collected: 03/16/22 09:20

Matrix: Water

Date Received: 03/16/22 15:51

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/18/22 11:32	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/18/22 11:32	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/18/22 11:32	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/18/22 11:32	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/18/22 11:32	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/18/22 11:32	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/18/22 11:32	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/18/22 11:32	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/18/22 11:32	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/18/22 11:32	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/18/22 11:32	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/18/22 11:32	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/18/22 11:32	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/18/22 11:32	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/18/22 11:32	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/18/22 11:32	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/18/22 11:32	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/18/22 11:32	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/18/22 11:32	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/18/22 11:32	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/18/22 11:32	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 11:32	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/18/22 11:32	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/18/22 11:32	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/18/22 11:32	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/18/22 11:32	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/18/22 11:32	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/18/22 11:32	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/18/22 11:32	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/18/22 11:32	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/18/22 11:32	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:32	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/18/22 11:32	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/18/22 11:32	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 13:16	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/18/22 11:32	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/18/22 11:32	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/18/22 11:32	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/18/22 11:32	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/18/22 11:32	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/18/22 11:32	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 11:32	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/18/22 11:32	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/18/22 11:32	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/18/22 11:32	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/18/22 11:32	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 11:32	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 11:32	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/18/22 11:32	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Client Sample ID: MW-1

Lab Sample ID: 880-12511-1

Date Collected: 03/16/22 09:20

Matrix: Water

Date Received: 03/16/22 15:51

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/18/22 11:32	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:32	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:32	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/18/22 11:32	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/18/22 11:32	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/18/22 11:32	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/18/22 11:32	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/18/22 11:32	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/18/22 11:32	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/18/22 11:32	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/18/22 11:32	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 13:16	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/18/22 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		03/18/22 11:32	1
4-Bromofluorobenzene (Surr)	104		74 - 124		03/18/22 13:16	1
Dibromofluoromethane (Surr)	101		75 - 131		03/18/22 11:32	1
Dibromofluoromethane (Surr)	97		75 - 131		03/18/22 13:16	1
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		03/18/22 11:32	1
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		03/18/22 13:16	1
Toluene-d8 (Surr)	99		80 - 117		03/18/22 11:32	1
Toluene-d8 (Surr)	102		80 - 117		03/18/22 13:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.959	U	4.85	0.959 mg/L			03/18/22 17:49	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	<0.959	U	4.85	0.959 mg/L		03/17/22 16:58	03/17/22 19:47	1
Diesel Range Organics (Over C10-C28)	<0.959	U	4.85	0.959 mg/L		03/17/22 16:58	03/17/22 19:47	1
Oil Range Organics (Over C28-C36)	<0.926	U	4.85	0.926 mg/L		03/17/22 16:58	03/17/22 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 135	03/17/22 16:58	03/17/22 19:47	1
o-Terphenyl	93		70 - 135	03/17/22 16:58	03/17/22 19:47	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		0.500	0.200 mg/L			03/17/22 22:02	1
Nitrate as N	0.147		0.100	0.0391 mg/L			03/17/22 22:02	1
Fluoride	0.546		0.500	0.100 mg/L			03/17/22 22:02	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/17/22 22:02	1
Sulfate	38.1		0.500	0.109 mg/L			03/17/22 22:02	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	339		4.00	4.00 mg/L			03/18/22 12:10	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12511-1

Date Collected: 03/16/22 09:20

Matrix: Water

Date Received: 03/16/22 15:51

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	339		4.00	4.00 mg/L			03/18/22 12:10	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/18/22 12:10	1
Carbon dioxide	365			mg/L			03/23/22 20:11	1
Carbon Dioxide, Free	67.6			mg/L			03/23/22 20:11	1
pH	7.0	HF		SU			03/17/22 18:15	1
Temperature	18.1	HF		Celsius			03/17/22 18:15	1
Sulfide	<0.495	U	5.00	0.495 mg/L			03/22/22 12:03	1

Client Sample ID: MW-2

Lab Sample ID: 880-12511-2

Date Collected: 03/16/22 10:39

Matrix: Water

Date Received: 03/16/22 15:51

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0200		0.00100	0.000214 mg/L			03/18/22 10:51	1
Bromobenzene	<0.000300	U F1	0.00100	0.000300 mg/L			03/18/22 10:51	1
Bromochloromethane	<0.000209	U F1	0.00100	0.000209 mg/L			03/18/22 10:51	1
Bromodichloromethane	<0.000231	U F1	0.00100	0.000231 mg/L			03/18/22 10:51	1
Bromoform	<0.000630	U F1	0.00500	0.000630 mg/L			03/18/22 10:51	1
Bromomethane	<0.00105	U F1	0.00500	0.00105 mg/L			03/18/22 10:51	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/18/22 10:51	1
Carbon tetrachloride	<0.000423	U F1	0.00500	0.000423 mg/L			03/18/22 10:51	1
Chlorobenzene	<0.000159	U F1	0.00100	0.000159 mg/L			03/18/22 10:51	1
Chloroethane	<0.000433	U F1	0.0100	0.000433 mg/L			03/18/22 10:51	1
Chloroform	<0.000259	U F1	0.00100	0.000259 mg/L			03/18/22 10:51	1
Chloromethane	<0.000318	U F1	0.0100	0.000318 mg/L			03/18/22 10:51	1
2-Chlorotoluene	<0.000214	U F1	0.00100	0.000214 mg/L			03/18/22 10:51	1
4-Chlorotoluene	<0.000183	U F1	0.00100	0.000183 mg/L			03/18/22 10:51	1
cis-1,2-Dichloroethene	<0.000174	U F1	0.00100	0.000174 mg/L			03/18/22 10:51	1
cis-1,3-Dichloropropene	<0.000690	U F1	0.00500	0.000690 mg/L			03/18/22 10:51	1
Dibromochloromethane	<0.000739	U F1	0.00500	0.000739 mg/L			03/18/22 10:51	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/18/22 10:51	1
1,2-Dibromoethane	<0.000337	U F1	0.00500	0.000337 mg/L			03/18/22 10:51	1
1,2-Dichlorobenzene	<0.000236	U F1	0.00100	0.000236 mg/L			03/18/22 10:51	1
1,3-Dichlorobenzene	<0.000197	U F1	0.00100	0.000197 mg/L			03/18/22 10:51	1
1,4-Dichlorobenzene	<0.000199	U F1	0.00100	0.000199 mg/L			03/18/22 10:51	1
Dichlorodifluoromethane	<0.000316	U F1	0.00100	0.000316 mg/L			03/18/22 10:51	1
1,1-Dichloroethane	<0.000244	U F1	0.00100	0.000244 mg/L			03/18/22 10:51	1
1,2-Dichloroethane	<0.000285	U F1	0.00100	0.000285 mg/L			03/18/22 10:51	1
1,1-Dichloroethene	<0.000216	U F1	0.00100	0.000216 mg/L			03/18/22 10:51	1
1,2-Dichloropropane	<0.000396	U F1	0.00500	0.000396 mg/L			03/18/22 10:51	1
1,3-Dichloropropane	<0.000439	U F1	0.00500	0.000439 mg/L			03/18/22 10:51	1
2,2-Dichloropropane	<0.000360	U F1	0.00500	0.000360 mg/L			03/18/22 10:51	1
1,1-Dichloropropene	<0.000481	U F1	0.00500	0.000481 mg/L			03/18/22 10:51	1
Ethylbenzene	0.0209	F1	0.00100	0.000515 mg/L			03/18/22 10:51	1
Hexachlorobutadiene	<0.00200	U F1	0.00500	0.00200 mg/L			03/18/22 10:51	1
Isopropylbenzene	0.00753	F1	0.00100	0.000161 mg/L			03/18/22 10:51	1
Methylene Chloride	<0.00191	U F1	0.00500	0.00191 mg/L			03/18/22 10:51	1
m,p-Xylenes	0.0947		0.0100	0.000330 mg/L			03/18/22 10:51	1
MTBE	<0.000571	U F1	0.00500	0.000571 mg/L			03/18/22 10:51	1

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Client Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-12511-2

Date Collected: 03/16/22 10:39

Matrix: Water

Date Received: 03/16/22 15:51

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00200	U F1	0.0100	0.00200 mg/L			03/18/22 10:51	1
n-Butylbenzene	<0.000286	U F1	0.00100	0.000286 mg/L			03/18/22 10:51	1
N-Propylbenzene	0.00212	F1	0.00100	0.000179 mg/L			03/18/22 10:51	1
o-Xylene	0.0133	F1	0.00100	0.000192 mg/L			03/18/22 10:51	1
p-Cymene (p-Isopropyltoluene)	0.000524	J F1	0.00100	0.000233 mg/L			03/18/22 10:51	1
sec-Butylbenzene	0.000759	J F1	0.00100	0.000199 mg/L			03/18/22 10:51	1
Styrene	<0.000623	U F1	0.00100	0.000623 mg/L			03/18/22 10:51	1
tert-Butylbenzene	<0.000195	U F1	0.00100	0.000195 mg/L			03/18/22 10:51	1
1,1,1,2-Tetrachloroethane	<0.000327	U F1	0.00100	0.000327 mg/L			03/18/22 10:51	1
1,1,2,2-Tetrachloroethane	<0.000284	U F1	0.00100	0.000284 mg/L			03/18/22 10:51	1
Tetrachloroethene	<0.000500	U F1	0.00100	0.000500 mg/L			03/18/22 10:51	1
Toluene	0.00793		0.00100	0.000500 mg/L			03/18/22 10:51	1
trans-1,2-Dichloroethene	<0.000256	U F1	0.00100	0.000256 mg/L			03/18/22 10:51	1
trans-1,3-Dichloropropene	<0.000752	U F1	0.00500	0.000752 mg/L			03/18/22 10:51	1
1,2,3-Trichlorobenzene	<0.00200	U F1	0.00500	0.00200 mg/L			03/18/22 10:51	1
1,2,4-Trichlorobenzene	<0.00200	U F1	0.00500	0.00200 mg/L			03/18/22 10:51	1
1,1,1-Trichloroethane	<0.000504	U F1	0.00500	0.000504 mg/L			03/18/22 10:51	1
1,1,2-Trichloroethane	<0.000228	U F1	0.00100	0.000228 mg/L			03/18/22 10:51	1
Trichloroethene	<0.000424	U F1	0.00500	0.000424 mg/L			03/18/22 10:51	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/18/22 10:51	1
1,2,3-Trichloropropane	<0.000283	U F1	0.00100	0.000283 mg/L			03/18/22 10:51	1
1,2,4-Trimethylbenzene	0.0216		0.00100	0.000252 mg/L			03/18/22 10:51	1
1,3,5-Trimethylbenzene	0.00583	F1	0.00100	0.000279 mg/L			03/18/22 10:51	1
Vinyl chloride	<0.000234	U F1	0.00200	0.000234 mg/L			03/18/22 10:51	1
Xylenes, Total	0.108		0.0100	0.000330 mg/L			03/18/22 10:51	1
Total BTEX	0.157		0.0100	0.000214 mg/L			03/18/22 10:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		03/18/22 10:51	1
Dibromofluoromethane (Surr)	97		75 - 131		03/18/22 10:51	1
1,2-Dichloroethane-d4 (Surr)	90		63 - 144		03/18/22 10:51	1
Toluene-d8 (Surr)	98		80 - 117		03/18/22 10:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.22	J	4.63	0.915 mg/L			03/18/22 17:49	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	2.22	J	4.63	0.915 mg/L		03/17/22 16:58	03/17/22 20:07	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915 mg/L		03/17/22 16:58	03/17/22 20:07	1
Oil Range Organics (Over C28-C36)	<0.883	U	4.63	0.883 mg/L		03/17/22 16:58	03/17/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	03/17/22 16:58	03/17/22 20:07	1
o-Terphenyl	93		70 - 135	03/17/22 16:58	03/17/22 20:07	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Client Sample ID: MW-2
Date Collected: 03/16/22 10:39
Date Received: 03/16/22 15:51

Lab Sample ID: 880-12511-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		0.500	0.200	mg/L			03/17/22 23:10	1
Nitrate as N	0.890		0.100	0.0391	mg/L			03/17/22 23:10	1
Fluoride	<0.100	U	0.500	0.100	mg/L			03/17/22 23:10	1
Nitrite as N	1.47		0.100	0.0293	mg/L			03/17/22 23:10	1
Sulfate	135		0.500	0.109	mg/L			03/17/22 23:10	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1350		4.00	4.00	mg/L			03/18/22 12:36	1
Bicarbonate Alkalinity as CaCO3	1350		4.00	4.00	mg/L			03/18/22 12:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/18/22 12:36	1
Carbon dioxide	2880				mg/L			03/23/22 20:11	1
Carbon Dioxide, Free	1700				mg/L			03/23/22 20:11	1
pH	6.2	HF			SU			03/17/22 18:15	1
Temperature	18.1	HF			Celsius			03/17/22 18:15	1
Sulfide	<0.495	U	5.00	0.495	mg/L			03/22/22 12:03	1

Surrogate Summary

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-22353-E-6 MS	Matrix Spike	105	100	101	101
880-12511-1	MW-1	104	97	96	102
880-12511-1	MW-1	99	101	95	99
880-12511-2	MW-2	94	97	90	98
880-12511-2 MS	MW-2	97	98	92	99
LCS 860-45444/3	Lab Control Sample	103	101	102	101
LCS 860-45447/3	Lab Control Sample	96	98	89	97
LCSD 860-45444/4	Lab Control Sample Dup	102	100	103	99
LCSD 860-45447/4	Lab Control Sample Dup	95	99	89	97
MB 860-45444/9	Method Blank	104	94	97	102
MB 860-45447/10	Method Blank	96	100	92	97
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-12511-1	MW-1	106	93
880-12511-2	MW-2	107	93
LCS 860-45411/2-A	Lab Control Sample	110	102
LCSD 860-45411/3-A	Lab Control Sample Dup	110	99
MB 860-45411/1-A	Method Blank	101	88
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-45444/9

Matrix: Water

Analysis Batch: 45444

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/18/22 11:13	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/18/22 11:13	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/18/22 11:13	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/18/22 11:13	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/18/22 11:13	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/18/22 11:13	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/18/22 11:13	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/18/22 11:13	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/18/22 11:13	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/18/22 11:13	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/18/22 11:13	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/18/22 11:13	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/18/22 11:13	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/18/22 11:13	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/18/22 11:13	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/18/22 11:13	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/18/22 11:13	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/18/22 11:13	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/18/22 11:13	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/18/22 11:13	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/18/22 11:13	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 11:13	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/18/22 11:13	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/18/22 11:13	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/18/22 11:13	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/18/22 11:13	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/18/22 11:13	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/18/22 11:13	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/18/22 11:13	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/18/22 11:13	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/18/22 11:13	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:13	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/18/22 11:13	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/18/22 11:13	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 11:13	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/18/22 11:13	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/18/22 11:13	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/18/22 11:13	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/18/22 11:13	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/18/22 11:13	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/18/22 11:13	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 11:13	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/18/22 11:13	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/18/22 11:13	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/18/22 11:13	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/18/22 11:13	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 11:13	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 11:13	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-45444/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45444

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/18/22 11:13	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/18/22 11:13	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:13	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 11:13	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/18/22 11:13	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/18/22 11:13	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/18/22 11:13	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/18/22 11:13	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/18/22 11:13	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/18/22 11:13	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/18/22 11:13	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/18/22 11:13	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 11:13	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/18/22 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		03/18/22 11:13	1
Dibromofluoromethane (Surr)	94		75 - 131		03/18/22 11:13	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		03/18/22 11:13	1
Toluene-d8 (Surr)	102		80 - 117		03/18/22 11:13	1

Lab Sample ID: LCS 860-45444/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04869		mg/L		97	66 - 142
Bromobenzene	0.0500	0.05059		mg/L		101	75 - 125
Bromochloromethane	0.0500	0.05331		mg/L		107	60 - 140
Bromodichloromethane	0.0500	0.04954		mg/L		99	75 - 125
Bromoform	0.0500	0.04155		mg/L		83	75 - 125
Bromomethane	0.0500	0.04315		mg/L		86	60 - 140
2-Butanone	0.250	0.2112		mg/L		84	60 - 140
Carbon tetrachloride	0.0500	0.05073		mg/L		101	62 - 125
Chlorobenzene	0.0500	0.05000		mg/L		100	60 - 133
Chloroethane	0.0500	0.03754		mg/L		75	60 - 140
Chloroform	0.0500	0.05076		mg/L		102	70 - 130
Chloromethane	0.0500	0.05369		mg/L		107	60 - 140
2-Chlorotoluene	0.0500	0.05118		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05078		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05272		mg/L		105	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05147		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.04801		mg/L		96	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04813		mg/L		96	59 - 125
1,2-Dibromoethane	0.0500	0.04884		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.05093		mg/L		102	75 - 125
1,3-Dichlorobenzene	0.0500	0.04933		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.04878		mg/L		98	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-45444/3

Matrix: Water

Analysis Batch: 45444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.05717		mg/L		114	70 - 130
1,1-Dichloroethane	0.0500	0.05041		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.05011		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.05239		mg/L		105	59 - 172
1,2-Dichloropropane	0.0500	0.05103		mg/L		102	74 - 125
1,3-Dichloropropane	0.0500	0.04935		mg/L		99	75 - 125
2,2-Dichloropropane	0.0500	0.05303		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.05122		mg/L		102	75 - 125
Ethylbenzene	0.0500	0.04998		mg/L		100	75 - 125
Hexachlorobutadiene	0.0500	0.05641		mg/L		113	75 - 125
Isopropylbenzene	0.0500	0.04989		mg/L		100	75 - 125
Methylene Chloride	0.0500	0.04765		mg/L		95	75 - 125
m,p-Xylenes	0.0500	0.05017		mg/L		100	75 - 125
MTBE	0.0500	0.04744		mg/L		95	65 - 135
Naphthalene	0.0500	0.04448		mg/L		89	70 - 130
n-Butylbenzene	0.0500	0.05072		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.05104		mg/L		102	75 - 125
o-Xylene	0.0500	0.05039		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05102		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05090		mg/L		102	75 - 125
Styrene	0.0500	0.04916		mg/L		98	75 - 125
tert-Butylbenzene	0.0500	0.05124		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05050		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04665		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.05210		mg/L		104	71 - 125
Toluene	0.0500	0.04928		mg/L		99	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05106		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05151		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04743		mg/L		95	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04840		mg/L		97	75 - 135
1,1,1-Trichloroethane	0.0500	0.05071		mg/L		101	75 - 125
1,1,2-Trichloroethane	0.0500	0.04977		mg/L		100	75 - 127
Trichloroethene	0.0500	0.05164		mg/L		103	62 - 137
Trichlorofluoromethane	0.0500	0.05413		mg/L		108	60 - 140
1,2,3-Trichloropropane	0.0500	0.04341		mg/L		87	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05102		mg/L		102	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05073		mg/L		101	60 - 140
Vinyl chloride	0.0500	0.05271		mg/L		105	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-45444/4

Matrix: Water

Analysis Batch: 45444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04717		mg/L		94	66 - 142	3	25
Bromobenzene	0.0500	0.04885		mg/L		98	75 - 125	3	25
Bromochloromethane	0.0500	0.05170		mg/L		103	60 - 140	3	25
Bromodichloromethane	0.0500	0.04869		mg/L		97	75 - 125	2	25
Bromoform	0.0500	0.04147		mg/L		83	75 - 125	0	25
Bromomethane	0.0500	0.04114		mg/L		82	60 - 140	5	25
2-Butanone	0.250	0.2313		mg/L		93	60 - 140	9	25
Carbon tetrachloride	0.0500	0.04877		mg/L		98	62 - 125	4	25
Chlorobenzene	0.0500	0.04730		mg/L		95	60 - 133	6	25
Chloroethane	0.0500	0.03390		mg/L		68	60 - 140	10	25
Chloroform	0.0500	0.04940		mg/L		99	70 - 130	3	25
Chloromethane	0.0500	0.04700		mg/L		94	60 - 140	13	25
2-Chlorotoluene	0.0500	0.04871		mg/L		97	73 - 125	5	25
4-Chlorotoluene	0.0500	0.04890		mg/L		98	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05049		mg/L		101	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04892		mg/L		98	74 - 125	5	25
Dibromochloromethane	0.0500	0.04738		mg/L		95	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05025		mg/L		100	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.04849		mg/L		97	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04917		mg/L		98	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04827		mg/L		97	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04687		mg/L		94	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04978		mg/L		100	70 - 130	14	25
1,1-Dichloroethane	0.0500	0.04850		mg/L		97	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.04948		mg/L		99	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04774		mg/L		95	59 - 172	9	25
1,2-Dichloropropane	0.0500	0.04885		mg/L		98	74 - 125	4	25
1,3-Dichloropropane	0.0500	0.04754		mg/L		95	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.04970		mg/L		99	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04865		mg/L		97	75 - 125	5	25
Ethylbenzene	0.0500	0.04756		mg/L		95	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.05467		mg/L		109	75 - 125	3	25
Isopropylbenzene	0.0500	0.04803		mg/L		96	75 - 125	4	25
Methylene Chloride	0.0500	0.04496		mg/L		90	75 - 125	6	25
m,p-Xylenes	0.0500	0.04829		mg/L		97	75 - 125	4	25
MTBE	0.0500	0.04774		mg/L		95	65 - 135	1	25
Naphthalene	0.0500	0.04703		mg/L		94	70 - 130	6	25
n-Butylbenzene	0.0500	0.04991		mg/L		100	75 - 125	2	25
N-Propylbenzene	0.0500	0.04929		mg/L		99	75 - 125	3	25
o-Xylene	0.0500	0.04761		mg/L		95	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05035		mg/L		101	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05036		mg/L		101	75 - 125	1	25
Styrene	0.0500	0.04699		mg/L		94	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04967		mg/L		99	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.04767		mg/L		95	72 - 125	6	25
1,1,2,2-Tetrachloroethane	0.0500	0.04731		mg/L		95	74 - 125	1	25
Tetrachloroethene	0.0500	0.04861		mg/L		97	71 - 125	7	25
Toluene	0.0500	0.04625		mg/L		93	59 - 139	6	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-45444/4

Matrix: Water

Analysis Batch: 45444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.04841		mg/L		97	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04920		mg/L		98	66 - 125	5	25
1,2,3-Trichlorobenzene	0.0500	0.04918		mg/L		98	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.04943		mg/L		99	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04850		mg/L		97	75 - 125	4	25
1,1,2-Trichloroethane	0.0500	0.04960		mg/L		99	75 - 127	0	25
Trichloroethene	0.0500	0.04837		mg/L		97	62 - 137	7	25
Trichlorofluoromethane	0.0500	0.05001		mg/L		100	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.04802		mg/L		96	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.04891		mg/L		98	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.04937		mg/L		99	60 - 140	3	25
Vinyl chloride	0.0500	0.04828		mg/L		97	60 - 140	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Lab Sample ID: MB 860-45447/10

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L		03/18/22 10:10	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		03/18/22 10:10	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		03/18/22 10:10	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		03/18/22 10:10	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		03/18/22 10:10	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		03/18/22 10:10	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		03/18/22 10:10	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		03/18/22 10:10	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		03/18/22 10:10	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		03/18/22 10:10	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		03/18/22 10:10	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		03/18/22 10:10	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		03/18/22 10:10	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		03/18/22 10:10	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		03/18/22 10:10	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		03/18/22 10:10	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		03/18/22 10:10	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		03/18/22 10:10	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		03/18/22 10:10	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		03/18/22 10:10	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		03/18/22 10:10	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		03/18/22 10:10	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		03/18/22 10:10	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		03/18/22 10:10	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-45447/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45447

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/18/22 10:10	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/18/22 10:10	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/18/22 10:10	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/18/22 10:10	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/18/22 10:10	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/18/22 10:10	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/18/22 10:10	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 10:10	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/18/22 10:10	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/18/22 10:10	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 10:10	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/18/22 10:10	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/18/22 10:10	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/18/22 10:10	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/18/22 10:10	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/18/22 10:10	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/18/22 10:10	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/18/22 10:10	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/18/22 10:10	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/18/22 10:10	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/18/22 10:10	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/18/22 10:10	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 10:10	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/18/22 10:10	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/18/22 10:10	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/18/22 10:10	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 10:10	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/18/22 10:10	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/18/22 10:10	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/18/22 10:10	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/18/22 10:10	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/18/22 10:10	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/18/22 10:10	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/18/22 10:10	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/18/22 10:10	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/18/22 10:10	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/18/22 10:10	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/18/22 10:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		03/18/22 10:10	1
Dibromofluoromethane (Surr)	100		75 - 131		03/18/22 10:10	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 144		03/18/22 10:10	1
Toluene-d8 (Surr)	97		80 - 117		03/18/22 10:10	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-45447/3

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05336		mg/L		107	66 - 142
Bromobenzene	0.0500	0.05256		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05191		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05317		mg/L		106	75 - 125
Bromoform	0.0500	0.05574		mg/L		111	75 - 125
Bromomethane	0.0500	0.05435		mg/L		109	60 - 140
2-Butanone	0.250	0.2187		mg/L		87	60 - 140
Carbon tetrachloride	0.0500	0.04421		mg/L		88	62 - 125
Chlorobenzene	0.0500	0.05267		mg/L		105	60 - 133
Chloroethane	0.0500	0.04281		mg/L		86	60 - 140
Chloroform	0.0500	0.05050		mg/L		101	70 - 130
Chloromethane	0.0500	0.05252		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.05075		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05139		mg/L		103	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04918		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04972		mg/L		99	74 - 125
Dibromochloromethane	0.0500	0.05362		mg/L		107	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04903		mg/L		98	59 - 125
1,2-Dibromoethane	0.0500	0.05011		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05166		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05288		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05278		mg/L		106	75 - 125
Dichlorodifluoromethane	0.0500	0.03728		mg/L		75	70 - 130
1,1-Dichloroethane	0.0500	0.05131		mg/L		103	72 - 125
1,2-Dichloroethane	0.0500	0.04629		mg/L		93	68 - 127
1,1-Dichloroethene	0.0500	0.04708		mg/L		94	59 - 172
1,2-Dichloropropane	0.0500	0.05199		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.04844		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04977		mg/L		100	75 - 125
1,1-Dichloropropene	0.0500	0.04969		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.05175		mg/L		103	75 - 125
Hexachlorobutadiene	0.0500	0.05048		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.05096		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.04366		mg/L		87	75 - 125
m,p-Xylenes	0.0500	0.05176		mg/L		104	75 - 125
MTBE	0.0500	0.04781		mg/L		96	65 - 135
Naphthalene	0.0500	0.04803		mg/L		96	70 - 130
n-Butylbenzene	0.0500	0.04810		mg/L		96	75 - 125
N-Propylbenzene	0.0500	0.05094		mg/L		102	75 - 125
o-Xylene	0.0500	0.05157		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05130		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.05008		mg/L		100	75 - 125
Styrene	0.0500	0.04600		mg/L		92	75 - 125
tert-Butylbenzene	0.0500	0.04968		mg/L		99	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04868		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04939		mg/L		99	74 - 125
Tetrachloroethene	0.0500	0.04768		mg/L		95	71 - 125
Toluene	0.0500	0.05199		mg/L		104	59 - 139

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-45447/3

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	0.0500	0.05154		mg/L		103	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05177		mg/L		104	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04920		mg/L		98	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05045		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.05081		mg/L		102	75 - 125
1,1,2-Trichloroethane	0.0500	0.05007		mg/L		100	75 - 127
Trichloroethene	0.0500	0.05125		mg/L		102	62 - 137
Trichlorofluoromethane	0.0500	0.04635		mg/L		93	60 - 140
1,2,3-Trichloropropane	0.0500	0.04984		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05200		mg/L		104	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05162		mg/L		103	60 - 140
Vinyl chloride	0.0500	0.04358		mg/L		87	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	89		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Lab Sample ID: LCSD 860-45447/4

Matrix: Water

Analysis Batch: 45447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05482		mg/L		110	66 - 142	3	25
Bromobenzene	0.0500	0.05332		mg/L		107	75 - 125	1	25
Bromochloromethane	0.0500	0.05392		mg/L		108	60 - 140	4	25
Bromodichloromethane	0.0500	0.05496		mg/L		110	75 - 125	3	25
Bromoform	0.0500	0.05529		mg/L		111	75 - 125	1	25
Bromomethane	0.0500	0.05813		mg/L		116	60 - 140	7	25
2-Butanone	0.250	0.2212		mg/L		88	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04730		mg/L		95	62 - 125	7	25
Chlorobenzene	0.0500	0.05302		mg/L		106	60 - 133	1	25
Chloroethane	0.0500	0.04541		mg/L		91	60 - 140	6	25
Chloroform	0.0500	0.05234		mg/L		105	70 - 130	4	25
Chloromethane	0.0500	0.05570		mg/L		111	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05225		mg/L		105	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05239		mg/L		105	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05147		mg/L		103	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05058		mg/L		101	74 - 125	2	25
Dibromochloromethane	0.0500	0.05369		mg/L		107	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04847		mg/L		97	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05060		mg/L		101	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05233		mg/L		105	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05378		mg/L		108	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05341		mg/L		107	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04064		mg/L		81	70 - 130	9	25
1,1-Dichloroethane	0.0500	0.05380		mg/L		108	72 - 125	5	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-45447/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	0.0500	0.04769		mg/L		95	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.05029		mg/L		101	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.05268		mg/L		105	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04919		mg/L		98	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05196		mg/L		104	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05346		mg/L		107	75 - 125	7	25
Ethylbenzene	0.0500	0.05365		mg/L		107	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05497		mg/L		110	75 - 125	9	25
Isopropylbenzene	0.0500	0.05406		mg/L		108	75 - 125	6	25
Methylene Chloride	0.0500	0.04588		mg/L		92	75 - 125	5	25
m,p-Xylenes	0.0500	0.05362		mg/L		107	75 - 125	4	25
MTBE	0.0500	0.05037		mg/L		101	65 - 135	5	25
Naphthalene	0.0500	0.04873		mg/L		97	70 - 130	1	25
n-Butylbenzene	0.0500	0.05181		mg/L		104	75 - 125	7	25
N-Propylbenzene	0.0500	0.05280		mg/L		106	75 - 125	4	25
o-Xylene	0.0500	0.05316		mg/L		106	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05432		mg/L		109	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05333		mg/L		107	75 - 125	6	25
Styrene	0.0500	0.04681		mg/L		94	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05264		mg/L		105	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04888		mg/L		98	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04726		mg/L		95	74 - 125	4	25
Tetrachloroethene	0.0500	0.05048		mg/L		101	71 - 125	6	25
Toluene	0.0500	0.05351		mg/L		107	59 - 139	3	25
trans-1,2-Dichloroethene	0.0500	0.05619		mg/L		112	75 - 125	9	25
trans-1,3-Dichloropropene	0.0500	0.05266		mg/L		105	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05124		mg/L		102	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05216		mg/L		104	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.05326		mg/L		107	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.05062		mg/L		101	75 - 127	1	25
Trichloroethene	0.0500	0.05438		mg/L		109	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.05067		mg/L		101	60 - 140	9	25
1,2,3-Trichloropropane	0.0500	0.04731		mg/L		95	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05351		mg/L		107	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05408		mg/L		108	60 - 140	5	25
Vinyl chloride	0.0500	0.04565		mg/L		91	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	89		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-12511-2 MS

Matrix: Water

Analysis Batch: 45447

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0200		0.0500	0.05481		mg/L		70	66 - 142
Bromobenzene	<0.000300	U F1	0.0500	0.02621	F1	mg/L		52	75 - 125
Bromochloromethane	<0.000209	U F1	0.0500	0.02550	F1	mg/L		51	60 - 140
Bromodichloromethane	<0.000231	U F1	0.0500	0.02654	F1	mg/L		53	75 - 125
Bromoform	<0.000630	U F1	0.0500	0.03130	F1	mg/L		63	75 - 125
Bromomethane	<0.00105	U F1	0.0500	0.02090	F1	mg/L		42	60 - 140
2-Butanone	<0.00270	U	0.250	0.1818		mg/L		73	60 - 140
Carbon tetrachloride	<0.000423	U F1	0.0500	0.02671	F1	mg/L		53	62 - 125
Chlorobenzene	<0.000159	U F1	0.0500	0.02659	F1	mg/L		53	60 - 133
Chloroethane	<0.000433	U F1	0.0500	0.02228	F1	mg/L		45	60 - 140
Chloroform	<0.000259	U F1	0.0500	0.02597	F1	mg/L		52	70 - 130
Chloromethane	<0.000318	U F1	0.0500	0.02660	F1	mg/L		53	60 - 140
2-Chlorotoluene	<0.000214	U F1	0.0500	0.02902	F1	mg/L		58	73 - 125
4-Chlorotoluene	<0.000183	U F1	0.0500	0.02667	F1	mg/L		53	74 - 125
cis-1,2-Dichloroethene	<0.000174	U F1	0.0500	0.02543	F1	mg/L		51	75 - 125
cis-1,3-Dichloropropene	<0.000690	U F1	0.0500	0.02418	F1	mg/L		48	74 - 125
Dibromochloromethane	<0.000739	U F1	0.0500	0.02760	F1	mg/L		55	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.0500	0.03626		mg/L		73	59 - 125
1,2-Dibromoethane	<0.000337	U F1	0.0500	0.02727	F1	mg/L		55	73 - 125
1,2-Dichlorobenzene	<0.000236	U F1	0.0500	0.02661	F1	mg/L		53	75 - 125
1,3-Dichlorobenzene	<0.000197	U F1	0.0500	0.02663	F1	mg/L		53	75 - 125
1,4-Dichlorobenzene	<0.000199	U F1	0.0500	0.02676	F1	mg/L		54	75 - 125
Dichlorodifluoromethane	<0.000316	U F1	0.0500	0.02343	F1	mg/L		47	70 - 130
1,1-Dichloroethane	<0.000244	U F1	0.0500	0.02739	F1	mg/L		55	72 - 125
1,2-Dichloroethane	<0.000285	U F1	0.0500	0.02414	F1	mg/L		48	68 - 127
1,1-Dichloroethene	<0.000216	U F1	0.0500	0.02724	F1	mg/L		54	59 - 172
1,2-Dichloropropane	<0.000396	U F1	0.0500	0.02664	F1	mg/L		53	74 - 125
1,3-Dichloropropane	<0.000439	U F1	0.0500	0.02552	F1	mg/L		51	75 - 125
2,2-Dichloropropane	<0.000360	U F1	0.0500	0.02849	F1	mg/L		57	75 - 125
1,1-Dichloropropene	<0.000481	U F1	0.0500	0.02904	F1	mg/L		58	75 - 125
Ethylbenzene	0.0209	F1	0.0500	0.05733	F1	mg/L		73	75 - 125
Hexachlorobutadiene	<0.00200	U F1	0.0500	0.02463	F1	mg/L		49	75 - 125
Isopropylbenzene	0.00753	F1	0.0500	0.03887	F1	mg/L		63	75 - 125
Methylene Chloride	<0.00191	U F1	0.0500	0.02210	F1	mg/L		44	75 - 125
MTBE	<0.000571	U F1	0.0500	0.02596	F1	mg/L		52	65 - 135
Naphthalene	<0.00200	U F1	0.0500	0.03124	F1	mg/L		62	70 - 130
n-Butylbenzene	<0.000286	U F1	0.0500	0.02553	F1	mg/L		51	75 - 125
N-Propylbenzene	0.00212	F1	0.0500	0.03047	F1	mg/L		57	75 - 125
o-Xylene	0.0133	F1	0.0500	0.04660	F1	mg/L		67	75 - 125
p-Cymene (p-Isopropyltoluene)	0.000524	J F1	0.0500	0.02769	F1	mg/L		54	75 - 125
sec-Butylbenzene	0.000759	J F1	0.0500	0.02843	F1	mg/L		55	75 - 125
Styrene	<0.000623	U F1	0.0500	0.02382	F1	mg/L		48	75 - 125
tert-Butylbenzene	<0.000195	U F1	0.0500	0.02757	F1	mg/L		55	75 - 125
1,1,1,2-Tetrachloroethane	<0.000327	U F1	0.0500	0.02469	F1	mg/L		49	72 - 125
1,1,2,2-Tetrachloroethane	<0.000284	U F1	0.0500	0.03121	F1	mg/L		62	74 - 125
Tetrachloroethene	<0.000500	U F1	0.0500	0.02777	F1	mg/L		56	71 - 125
Toluene	0.00793		0.0500	0.03738		mg/L		59	59 - 139
trans-1,2-Dichloroethene	<0.000256	U F1	0.0500	0.02750	F1	mg/L		55	75 - 125

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-12511-2 MS

Matrix: Water

Analysis Batch: 45447

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	<0.000752	U F1	0.0500	0.02575	F1	mg/L		52	66 - 125
1,2,3-Trichlorobenzene	<0.00200	U F1	0.0500	0.02705	F1	mg/L		54	75 - 137
1,2,4-Trichlorobenzene	<0.00200	U F1	0.0500	0.02604	F1	mg/L		52	75 - 135
1,1,1-Trichloroethane	<0.000504	U F1	0.0500	0.02936	F1	mg/L		59	75 - 125
1,1,2-Trichloroethane	<0.000228	U F1	0.0500	0.02691	F1	mg/L		54	75 - 127
Trichloroethene	<0.000424	U F1	0.0500	0.02774	F1	mg/L		55	62 - 137
Trichlorofluoromethane	<0.000245	U	0.0500	0.02998		mg/L		60	60 - 140
1,2,3-Trichloropropane	<0.000283	U F1	0.0500	0.03224	F1	mg/L		64	75 - 125
1,2,4-Trimethylbenzene	0.0216		0.0500	0.05942		mg/L		76	75 - 125
1,3,5-Trimethylbenzene	0.00583	F1	0.0500	0.03645	F1	mg/L		61	70 - 125
Vinyl chloride	<0.000234	U F1	0.0500	0.02455	F1	mg/L		49	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		74 - 124						
Dibromofluoromethane (Surr)	98		75 - 131						
1,2-Dichloroethane-d4 (Surr)	92		63 - 144						
Toluene-d8 (Surr)	99		80 - 117						

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

Lab Sample ID: MB 860-45411/1-A

Matrix: Water

Analysis Batch: 45319

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45411

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		03/17/22 16:58	03/17/22 19:27	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		03/17/22 16:58	03/17/22 19:27	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		03/17/22 16:58	03/17/22 19:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135			03/17/22 16:58	03/17/22 19:27	1
o-Terphenyl	88		70 - 135			03/17/22 16:58	03/17/22 19:27	1

Lab Sample ID: LCS 860-45411/2-A

Matrix: Water

Analysis Batch: 45319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	100	117.1		mg/L		117	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	95.98		mg/L		96	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 135				
o-Terphenyl	102		70 - 135				

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-45411/3-A

Matrix: Water

Analysis Batch: 45319

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45411

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	120.5		mg/L		120	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	99.7	99.72		mg/L		100	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		70 - 135						
o-Terphenyl	99		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-45381/3

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/17/22 15:56	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/17/22 15:56	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/17/22 15:56	1

Lab Sample ID: MB 860-45381/45

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/17/22 23:55	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/17/22 23:55	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/17/22 23:55	1

Lab Sample ID: LCS 860-45381/46

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.426		mg/L		94	90 - 110
Fluoride	10.0	10.63		mg/L		106	90 - 110
Sulfate	10.0	10.07		mg/L		101	90 - 110

Lab Sample ID: LCS 860-45381/6

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.390		mg/L		94	90 - 110
Fluoride	10.0	10.60		mg/L		106	90 - 110
Sulfate	10.0	10.08		mg/L		101	90 - 110

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-45381/47

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.549		mg/L		95	90 - 110	1	20
Fluoride	10.0	10.74		mg/L		107	90 - 110	1	20
Sulfate	10.0	10.14		mg/L		101	90 - 110	1	20

Lab Sample ID: LCSD 860-45381/7

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.491		mg/L		95	90 - 110	1	20
Fluoride	10.0	10.66		mg/L		107	90 - 110	1	20
Sulfate	10.0	10.12		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-45381/5

Matrix: Water

Analysis Batch: 45381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	0.500	0.7106		mg/L		142	50 - 150		
Fluoride	0.500	0.3471	J	mg/L		69	50 - 150		
Sulfate	0.500	0.4878	J	mg/L		98	50 - 150		

Lab Sample ID: MB 860-45382/3

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/17/22 15:56	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/17/22 15:56	1

Lab Sample ID: MB 860-45382/45

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/17/22 23:55	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/17/22 23:55	1

Lab Sample ID: LCS 860-45382/46

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	10.0	9.471		mg/L		95	80 - 120		
Nitrite as N	5.00	4.678		mg/L		94	80 - 120		

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QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-45382/6

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.428		mg/L		94	80 - 120
Nitrite as N	5.00	4.668		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-45382/47

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.396		mg/L		94	80 - 120	1	20
Nitrite as N	5.00	4.837		mg/L		97	80 - 120	3	20

Lab Sample ID: LCSD 860-45382/7

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.358		mg/L		94	80 - 120	1	20
Nitrite as N	5.00	4.843		mg/L		97	80 - 120	4	20

Lab Sample ID: LLCS 860-45382/5

Matrix: Water

Analysis Batch: 45382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.4308		mg/L		86	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-45561/3

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			03/18/22 11:42	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/18/22 11:42	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/18/22 11:42	1

Lab Sample ID: LCS 860-45561/4

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	255.1		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-45561/5

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	257.0		mg/L		103	85 - 115	1	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LLCS 860-45561/31

Matrix: Water

Analysis Batch: 45561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	50.0	57.42		mg/L		115	

Lab Sample ID: 880-12511-1 DU

Matrix: Water

Analysis Batch: 45561

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	339		339.0		mg/L		0.1	20
Bicarbonate Alkalinity as CaCO3	339		339.0		mg/L		0.1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-12511-1 DU

Matrix: Water

Analysis Batch: 45434

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.0	HF	7.0		SU		0.1	20
Temperature	18.1	HF	18.2		Celsius		0.6	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-45893/7

Matrix: Water

Analysis Batch: 45893

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495 mg/L			03/22/22 12:03	1

Lab Sample ID: LCS 860-45893/8

Matrix: Water

Analysis Batch: 45893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	51.4	47.20		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-45893/9

Matrix: Water

Analysis Batch: 45893

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	51.4	46.60		mg/L		91	80 - 120	1	20

Lab Sample ID: 880-12511-1 MS

Matrix: Water

Analysis Batch: 45893

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	<0.495	U	51.4	47.00		mg/L		91	80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: 880-12511-1 MSD							Client Sample ID: MW-1					
Matrix: Water							Prep Type: Total/NA					
Analysis Batch: 45893												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Sulfide	<0.495	U	51.4	47.20		mg/L		92	80 - 120	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-12511-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 45444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	8260C	
MB 860-45444/9	Method Blank	Total/NA	Water	8260C	
LCS 860-45444/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-45444/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 45447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	8260C	
880-12511-2	MW-2	Total/NA	Water	8260C	
MB 860-45447/10	Method Blank	Total/NA	Water	8260C	
LCS 860-45447/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-45447/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-12511-2 MS	MW-2	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 44206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	8015 NM	
880-12511-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 45319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	8015B NM	45411
880-12511-2	MW-2	Total/NA	Water	8015B NM	45411
MB 860-45411/1-A	Method Blank	Total/NA	Water	8015B NM	45411
LCS 860-45411/2-A	Lab Control Sample	Total/NA	Water	8015B NM	45411
LCSD 860-45411/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	45411

Prep Batch: 45411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-12511-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-45411/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-45411/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-45411/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 45381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	300.0	
880-12511-2	MW-2	Total/NA	Water	300.0	
MB 860-45381/3	Method Blank	Total/NA	Water	300.0	
MB 860-45381/45	Method Blank	Total/NA	Water	300.0	
LCS 860-45381/46	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-45381/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-45381/47	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-45381/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-45381/5	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

HPLC/IC

Analysis Batch: 45382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	300.0	
880-12511-2	MW-2	Total/NA	Water	300.0	
MB 860-45382/3	Method Blank	Total/NA	Water	300.0	
MB 860-45382/45	Method Blank	Total/NA	Water	300.0	
LCS 860-45382/46	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-45382/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-45382/47	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-45382/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-45382/5	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 45434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-12511-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-12511-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 45561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	SM 2320B	
880-12511-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-45561/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-45561/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-45561/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-45561/31	Lab Control Sample	Total/NA	Water	SM 2320B	
880-12511-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 45893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12511-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-45893/7	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-45893/8	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-45893/9	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-12511-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12511-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 46182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12511-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-12511-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Client Sample ID: MW-1
Date Collected: 03/16/22 09:20
Date Received: 03/16/22 15:51

Lab Sample ID: 880-12511-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	45447	03/18/22 11:32	NA	XEN STF
Total/NA	Analysis	8260C		1	45444	03/18/22 13:16	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	44206	03/18/22 17:49	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			45411	03/17/22 16:58	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	45319	03/17/22 19:47	T1S	XEN STF
Total/NA	Analysis	300.0		1	45381	03/17/22 22:02	WP	XEN STF
Total/NA	Analysis	300.0		1	45382	03/17/22 22:02	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	45561	03/18/22 12:10	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	46182	03/23/22 20:11	DP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	45434	03/17/22 18:15	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	45893	03/22/22 12:03	ANP	XEN STF

Client Sample ID: MW-2
Date Collected: 03/16/22 10:39
Date Received: 03/16/22 15:51

Lab Sample ID: 880-12511-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	45447	03/18/22 10:51	NA	XEN STF
Total/NA	Analysis	8015 NM		1	44206	03/18/22 17:49	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			45411	03/17/22 16:58	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	45319	03/17/22 20:07	T1S	XEN STF
Total/NA	Analysis	300.0		1	45381	03/17/22 23:10	WP	XEN STF
Total/NA	Analysis	300.0		1	45382	03/17/22 23:10	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	45561	03/18/22 12:36	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	46182	03/23/22 20:11	DP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	45434	03/17/22 18:15	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	45893	03/22/22 12:03	ANP	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12511-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12511-1	MW-1	Water	03/16/22 09:20	03/16/22 15:51
880-12511-2	MW-2	Water	03/16/22 10:39	03/16/22 15:51

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: 12811

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjennings@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:	South Hobbs	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	03B1417002	Routine	☐		
P.O. Number:	03B1417002	Rush 24 Hr			
Sampler's Name:	Shane Diller	Due Date			
SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	16.3/16.2	Thermometer ID	TPE		
Received Intact:	Yes ☒ No ☐	Correction Factor:	-		
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:	1		
Sample Custody Seals:	Yes ☐ No ☒				



880-12511 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolve	Dissove	VOC SW	TPH EPA	Chloride	pH EPA	Sample Comments										
MW-1					GW	3-16-22	0920	75'	7	X	X	X	X	X	X		24 Hr									
MW-2					GW	3-16-22	1639	85'	7	X	X	X	X	X	X											

Thermo SCIENTIFIC

90009

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed																															
TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U																															
1631 / 245.1 / 7470 / 7471 Hg																															

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
[Signature]	[Signature]	3/16/22			
		15:51			



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12859-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:
3/30/2022 3:59:37 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
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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: South Hobbs - 03B1417002

Laboratory Job ID: 880-12859-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Midland

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12859-1

Job ID: 880-12859-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-12859-1****Receipt**

The samples were received on 3/24/2022 3:18 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 5.4°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-46552 recovered outside control limits for the following analytes: Trichlorofluoromethane

Method 8260C: The matrix spike(MS) recoveries for analytical batch 860-46552 were outside control limits. Sample matrix interference 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.

GC Semi VOA

Method 8015MOD_NM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 860-46471.

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 for analytical batch 860-46357 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. chloride

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-46358 were outside control limits. Sample matrix interference 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.

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12859-1

Date Collected: 03/24/22 11:30

Matrix: Water

Date Received: 03/24/22 15:18

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 12:05	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/28/22 12:05	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/28/22 12:05	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/28/22 12:05	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/28/22 12:05	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/28/22 12:05	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/28/22 12:05	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/28/22 12:05	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/28/22 12:05	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/28/22 12:05	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/28/22 12:05	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/28/22 12:05	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 12:05	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/28/22 12:05	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/28/22 12:05	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/28/22 12:05	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/28/22 12:05	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/28/22 12:05	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/28/22 12:05	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/28/22 12:05	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/28/22 12:05	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 12:05	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/28/22 12:05	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/28/22 12:05	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/28/22 12:05	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/28/22 12:05	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/28/22 12:05	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/28/22 12:05	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/28/22 12:05	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/28/22 12:05	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/28/22 12:05	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 12:05	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/28/22 12:05	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/28/22 12:05	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 12:05	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/28/22 12:05	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/28/22 12:05	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/28/22 12:05	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/28/22 12:05	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/28/22 12:05	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/28/22 12:05	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 12:05	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/28/22 12:05	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/28/22 12:05	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/28/22 12:05	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/28/22 12:05	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 12:05	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 12:05	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/28/22 12:05	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12859-1

Date Collected: 03/24/22 11:30

Matrix: Water

Date Received: 03/24/22 15:18

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/28/22 12:05	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 12:05	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 12:05	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/28/22 12:05	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/28/22 12:05	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/28/22 12:05	1
Trichlorofluoromethane	<0.000245	U *1	0.00100	0.000245 mg/L			03/28/22 12:05	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/28/22 12:05	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/28/22 12:05	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/28/22 12:05	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/28/22 12:05	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 12:05	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/28/22 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		03/28/22 12:05	1
Dibromofluoromethane (Surr)	108		75 - 131		03/28/22 12:05	1
1,2-Dichloroethane-d4 (Surr)	66		63 - 144		03/28/22 12:05	1
Toluene-d8 (Surr)	102		80 - 117		03/28/22 12:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901 mg/L			03/28/22 12:15	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	<0.901	U	4.56	0.901 mg/L		03/25/22 17:04	03/25/22 18:49	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901 mg/L		03/25/22 17:04	03/25/22 18:49	1
Oil Range Organics (Over C28-C36)	<0.869	U	4.56	0.869 mg/L		03/25/22 17:04	03/25/22 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135			03/25/22 17:04	03/25/22 18:49	1
o-Terphenyl	101		70 - 135			03/25/22 17:04	03/25/22 18:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		0.500	0.200 mg/L			03/25/22 21:55	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/22 21:55	1
Fluoride	0.610		0.500	0.100 mg/L			03/25/22 21:55	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/25/22 21:55	1
Sulfate	42.9		0.500	0.109 mg/L			03/25/22 21:55	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	297		4.00	4.00 mg/L			03/25/22 18:58	1
Bicarbonate Alkalinity as CaCO3	297		4.00	4.00 mg/L			03/25/22 18:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/25/22 18:58	1
Carbon dioxide	299			mg/L			03/25/22 15:48	1
Carbon Dioxide, Free	37.5			mg/L			03/25/22 15:48	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12859-1

Client Sample ID: MW-1

Lab Sample ID: 880-12859-1

Date Collected: 03/24/22 11:30

Matrix: Water

Date Received: 03/24/22 15:18

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2	HF		SU			03/26/22 13:31	1
Temperature	18.9	HF		Celsius			03/26/22 13:31	1
Sulfide	<0.495	U	5.00	0.495 mg/L			03/28/22 19:26	1

Client Sample ID: MW-2

Lab Sample ID: 880-12859-2

Date Collected: 03/24/22 12:55

Matrix: Water

Date Received: 03/24/22 15:18

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0400		0.00100	0.000214 mg/L			03/28/22 12:26	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/28/22 12:26	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/28/22 12:26	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/28/22 12:26	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/28/22 12:26	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/28/22 12:26	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/28/22 12:26	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/28/22 12:26	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/28/22 12:26	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/28/22 12:26	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/28/22 12:26	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/28/22 12:26	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 12:26	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/28/22 12:26	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/28/22 12:26	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/28/22 12:26	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/28/22 12:26	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/28/22 12:26	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/28/22 12:26	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/28/22 12:26	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/28/22 12:26	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 12:26	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/28/22 12:26	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/28/22 12:26	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/28/22 12:26	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/28/22 12:26	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/28/22 12:26	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/28/22 12:26	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/28/22 12:26	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/28/22 12:26	1
Ethylbenzene	0.0490		0.00100	0.000515 mg/L			03/28/22 12:26	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 12:26	1
Isopropylbenzene	0.0208		0.00100	0.000161 mg/L			03/28/22 12:26	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/28/22 12:26	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/28/22 12:26	1
n-Butylbenzene	0.00104		0.00100	0.000286 mg/L			03/28/22 12:26	1
N-Propylbenzene	0.00487		0.00100	0.000179 mg/L			03/28/22 12:26	1
o-Xylene	0.0321		0.00100	0.000192 mg/L			03/28/22 12:26	1
p-Cymene (p-Isopropyltoluene)	0.00135		0.00100	0.000233 mg/L			03/28/22 12:26	1
sec-Butylbenzene	0.00192		0.00100	0.000199 mg/L			03/28/22 12:26	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-12859-2

Date Collected: 03/24/22 12:55

Matrix: Water

Date Received: 03/24/22 15:18

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/28/22 12:26	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/28/22 12:26	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/28/22 12:26	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/28/22 12:26	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 12:26	1
Toluene	0.0151		0.00100	0.000500 mg/L			03/28/22 12:26	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/28/22 12:26	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/28/22 12:26	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 12:26	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 12:26	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/28/22 12:26	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/28/22 12:26	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/28/22 12:26	1
Trichlorofluoromethane	<0.000245	U *1	0.00100	0.000245 mg/L			03/28/22 12:26	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/28/22 12:26	1
1,2,4-Trimethylbenzene	0.0679		0.00100	0.000252 mg/L			03/28/22 12:26	1
1,3,5-Trimethylbenzene	0.0170		0.00100	0.000279 mg/L			03/28/22 12:26	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/28/22 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		03/28/22 12:26	1
Dibromofluoromethane (Surr)	103		75 - 131		03/28/22 12:26	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		03/28/22 12:26	1
Toluene-d8 (Surr)	99		80 - 117		03/28/22 12:26	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.252		0.0500	0.00165 mg/L			03/28/22 12:46	5
Xylenes, Total	0.284		0.0500	0.00165 mg/L			03/28/22 12:46	5
Total BTEX	0.389		0.0500	0.00107 mg/L			03/28/22 12:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		03/28/22 12:46	5
Dibromofluoromethane (Surr)	105		75 - 131		03/28/22 12:46	5
1,2-Dichloroethane-d4 (Surr)	110		63 - 144		03/28/22 12:46	5
Toluene-d8 (Surr)	100		80 - 117		03/28/22 12:46	5

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/28/22 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		03/28/22 14:49	1
Dibromofluoromethane (Surr)	112		75 - 131		03/28/22 14:49	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		03/28/22 14:49	1
Toluene-d8 (Surr)	99		80 - 117		03/28/22 14:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.29	J	4.60	0.909 mg/L			03/28/22 12:15	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-12859-2

Date Collected: 03/24/22 12:55

Matrix: Water

Date Received: 03/24/22 15:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.29	J	4.60	0.909 mg/L		03/25/22 17:04	03/25/22 19:09	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909 mg/L		03/25/22 17:04	03/25/22 19:09	1
Oil Range Organics (Over C28-C36)	<0.877	U	4.60	0.877 mg/L		03/25/22 17:04	03/25/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135			03/25/22 17:04	03/25/22 19:09	1
o-Terphenyl	91		70 - 135			03/25/22 17:04	03/25/22 19:09	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		0.500	0.200 mg/L			03/25/22 22:07	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/22 22:07	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/25/22 22:07	1
Nitrite as N	0.389		0.100	0.0293 mg/L			03/25/22 22:07	1
Sulfate	120		5.00	1.09 mg/L			03/25/22 22:19	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00 mg/L			03/25/22 19:14	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00 mg/L			03/25/22 19:14	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			03/25/22 19:14	1
Carbon dioxide	2490			mg/L			03/25/22 15:48	1
Carbon Dioxide, Free	1330			mg/L			03/25/22 15:48	1
pH	6.3	HF		SU			03/26/22 13:31	1
Temperature	19.1	HF		Celsius			03/26/22 13:31	1
Sulfide	<0.495	U	5.00	0.495 mg/L			03/28/22 19:26	1

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Surrogate Summary

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-23285-A-16 MS	Matrix Spike	105	104	114	100
880-12858-G-1 MS	Matrix Spike	101	101	101	100
880-12859-1	MW-1	103	108	66	102
880-12859-2	MW-2	101	103	104	99
880-12859-2 - DL	MW-2	103	105	110	100
880-12859-2 - RA	MW-2	103	112	111	99
LCS 860-46552/3	Lab Control Sample	102	102	101	101
LCS 860-46592/3	Lab Control Sample	101	108	109	101
LCSD 860-46552/4	Lab Control Sample Dup	101	102	101	100
LCSD 860-46592/4	Lab Control Sample Dup	103	101	110	101
MB 860-46552/10	Method Blank	102	103	105	102
MB 860-46592/8	Method Blank	115	107	114	104
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-12859-1	MW-1	93	101
880-12859-2	MW-2	83	91
LCS 860-46471/2-A	Lab Control Sample	106	94
LCSD 860-46471/3-A	Lab Control Sample Dup	112	99
MB 860-46471/1-A	Method Blank	100	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-46552/10

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 11:24	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			03/28/22 11:24	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			03/28/22 11:24	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			03/28/22 11:24	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			03/28/22 11:24	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			03/28/22 11:24	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			03/28/22 11:24	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			03/28/22 11:24	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			03/28/22 11:24	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			03/28/22 11:24	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			03/28/22 11:24	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			03/28/22 11:24	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			03/28/22 11:24	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			03/28/22 11:24	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			03/28/22 11:24	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			03/28/22 11:24	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			03/28/22 11:24	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			03/28/22 11:24	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			03/28/22 11:24	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			03/28/22 11:24	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			03/28/22 11:24	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 11:24	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			03/28/22 11:24	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			03/28/22 11:24	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/28/22 11:24	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/28/22 11:24	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/28/22 11:24	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/28/22 11:24	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/28/22 11:24	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/28/22 11:24	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/28/22 11:24	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 11:24	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/28/22 11:24	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/28/22 11:24	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 11:24	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/28/22 11:24	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/28/22 11:24	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/28/22 11:24	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/28/22 11:24	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/28/22 11:24	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/28/22 11:24	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 11:24	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/28/22 11:24	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/28/22 11:24	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/28/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/28/22 11:24	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 11:24	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 11:24	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-46552/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 46552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/28/22 11:24	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/28/22 11:24	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 11:24	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 11:24	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/28/22 11:24	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/28/22 11:24	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/28/22 11:24	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/28/22 11:24	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/28/22 11:24	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/28/22 11:24	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/28/22 11:24	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/28/22 11:24	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 11:24	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/28/22 11:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124				03/28/22 11:24	1
Dibromofluoromethane (Surr)	103		75 - 131				03/28/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144				03/28/22 11:24	1
Toluene-d8 (Surr)	102		80 - 117				03/28/22 11:24	1

Lab Sample ID: LCS 860-46552/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 46552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04598		mg/L		92	66 - 142
Bromobenzene	0.0500	0.04520		mg/L		90	75 - 125
Bromochloromethane	0.0500	0.04622		mg/L		92	60 - 140
Bromodichloromethane	0.0500	0.04553		mg/L		91	75 - 125
Bromoform	0.0500	0.04530		mg/L		91	75 - 125
Bromomethane	0.0500	0.04866		mg/L		97	60 - 140
2-Butanone	0.250	0.2422		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.04521		mg/L		90	62 - 125
Chlorobenzene	0.0500	0.04577		mg/L		92	60 - 133
Chloroethane	0.0500	0.05468		mg/L		109	60 - 140
Chloroform	0.0500	0.04729		mg/L		95	70 - 130
Chloromethane	0.0500	0.04465		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.04708		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04684		mg/L		94	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04982		mg/L		100	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04637		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04558		mg/L		91	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04513		mg/L		90	59 - 125
1,2-Dibromoethane	0.0500	0.04532		mg/L		91	73 - 125
1,2-Dichlorobenzene	0.0500	0.04505		mg/L		90	75 - 125
1,3-Dichlorobenzene	0.0500	0.04479		mg/L		90	75 - 125
1,4-Dichlorobenzene	0.0500	0.04442		mg/L		89	75 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-46552/3

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.04810		mg/L		96	70 - 130
1,1-Dichloroethane	0.0500	0.05012		mg/L		100	72 - 125
1,2-Dichloroethane	0.0500	0.04604		mg/L		92	68 - 127
1,1-Dichloroethene	0.0500	0.04031		mg/L		81	59 - 172
1,2-Dichloropropane	0.0500	0.04534		mg/L		91	74 - 125
1,3-Dichloropropane	0.0500	0.04539		mg/L		91	75 - 125
2,2-Dichloropropane	0.0500	0.05187		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04573		mg/L		91	75 - 125
Ethylbenzene	0.0500	0.04703		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.05006		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.04793		mg/L		96	75 - 125
Methylene Chloride	0.0500	0.03942		mg/L		79	75 - 125
m,p-Xylenes	0.0500	0.04726		mg/L		95	75 - 125
MTBE	0.0500	0.04937		mg/L		99	65 - 135
Naphthalene	0.0500	0.05235		mg/L		105	70 - 130
n-Butylbenzene	0.0500	0.04619		mg/L		92	75 - 125
N-Propylbenzene	0.0500	0.04725		mg/L		94	75 - 125
o-Xylene	0.0500	0.04731		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04742		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04849		mg/L		97	75 - 125
Styrene	0.0500	0.04782		mg/L		96	75 - 125
tert-Butylbenzene	0.0500	0.04609		mg/L		92	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04604		mg/L		92	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04465		mg/L		89	74 - 125
Tetrachloroethene	0.0500	0.04452		mg/L		89	71 - 125
Toluene	0.0500	0.04577		mg/L		92	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04772		mg/L		95	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04722		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05188		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05070		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.04688		mg/L		94	75 - 125
1,1,2-Trichloroethane	0.0500	0.04593		mg/L		92	75 - 127
Trichloroethene	0.0500	0.04527		mg/L		91	62 - 137
Trichlorofluoromethane	0.0500	0.05897		mg/L		118	60 - 140
1,2,3-Trichloropropane	0.0500	0.04691		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04740		mg/L		95	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04750		mg/L		95	60 - 140
Vinyl chloride	0.0500	0.04278		mg/L		86	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	101		80 - 117

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46552/4

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04407		mg/L		88	66 - 142	4	25
Bromobenzene	0.0500	0.04267		mg/L		85	75 - 125	6	25
Bromochloromethane	0.0500	0.04558		mg/L		91	60 - 140	1	25
Bromodichloromethane	0.0500	0.04402		mg/L		88	75 - 125	3	25
Bromoform	0.0500	0.04540		mg/L		91	75 - 125	0	25
Bromomethane	0.0500	0.04326		mg/L		87	60 - 140	12	25
2-Butanone	0.250	0.2576		mg/L		103	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04307		mg/L		86	62 - 125	5	25
Chlorobenzene	0.0500	0.04389		mg/L		88	60 - 133	4	25
Chloroethane	0.0500	0.04704		mg/L		94	60 - 140	15	25
Chloroform	0.0500	0.04532		mg/L		91	70 - 130	4	25
Chloromethane	0.0500	0.04277		mg/L		86	60 - 140	4	25
2-Chlorotoluene	0.0500	0.04433		mg/L		89	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04385		mg/L		88	74 - 125	7	25
cis-1,2-Dichloroethene	0.0500	0.04778		mg/L		96	75 - 125	4	25
cis-1,3-Dichloropropene	0.0500	0.04515		mg/L		90	74 - 125	3	25
Dibromochloromethane	0.0500	0.04412		mg/L		88	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04636		mg/L		93	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.04502		mg/L		90	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04325		mg/L		87	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04239		mg/L		85	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04195		mg/L		84	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.04189		mg/L		84	70 - 130	14	25
1,1-Dichloroethane	0.0500	0.04633		mg/L		93	72 - 125	8	25
1,2-Dichloroethane	0.0500	0.04462		mg/L		89	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04012		mg/L		80	59 - 172	0	25
1,2-Dichloropropane	0.0500	0.04386		mg/L		88	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04465		mg/L		89	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04912		mg/L		98	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04328		mg/L		87	75 - 125	6	25
Ethylbenzene	0.0500	0.04457		mg/L		89	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.04731		mg/L		95	75 - 125	6	25
Isopropylbenzene	0.0500	0.04580		mg/L		92	75 - 125	5	25
Methylene Chloride	0.0500	0.04775		mg/L		95	75 - 125	19	25
m,p-Xylenes	0.0500	0.04528		mg/L		91	75 - 125	4	25
MTBE	0.0500	0.04858		mg/L		97	65 - 135	2	25
Naphthalene	0.0500	0.05214		mg/L		104	70 - 130	0	25
n-Butylbenzene	0.0500	0.04331		mg/L		87	75 - 125	6	25
N-Propylbenzene	0.0500	0.04426		mg/L		89	75 - 125	7	25
o-Xylene	0.0500	0.04497		mg/L		90	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04461		mg/L		89	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04564		mg/L		91	75 - 125	6	25
Styrene	0.0500	0.04567		mg/L		91	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04379		mg/L		88	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04412		mg/L		88	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04445		mg/L		89	74 - 125	0	25
Tetrachloroethene	0.0500	0.04257		mg/L		85	71 - 125	4	25
Toluene	0.0500	0.04366		mg/L		87	59 - 139	5	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46552/4

Matrix: Water

Analysis Batch: 46552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.04399		mg/L		88	75 - 125	8	25
trans-1,3-Dichloropropene	0.0500	0.04646		mg/L		93	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05139		mg/L		103	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05037		mg/L		101	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.04454		mg/L		89	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.04471		mg/L		89	75 - 127	3	25
Trichloroethene	0.0500	0.04286		mg/L		86	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.04479	*1	mg/L		90	60 - 140	27	25
1,2,3-Trichloropropane	0.0500	0.04649		mg/L		93	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.04488		mg/L		90	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.04391		mg/L		88	60 - 140	8	25
Vinyl chloride	0.0500	0.03503		mg/L		70	60 - 140	20	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Lab Sample ID: MB 860-46592/8

Matrix: Water

Analysis Batch: 46592

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L		03/28/22 13:52	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		03/28/22 13:52	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		03/28/22 13:52	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		03/28/22 13:52	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		03/28/22 13:52	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		03/28/22 13:52	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		03/28/22 13:52	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		03/28/22 13:52	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		03/28/22 13:52	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		03/28/22 13:52	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		03/28/22 13:52	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		03/28/22 13:52	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		03/28/22 13:52	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		03/28/22 13:52	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		03/28/22 13:52	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		03/28/22 13:52	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		03/28/22 13:52	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		03/28/22 13:52	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		03/28/22 13:52	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		03/28/22 13:52	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		03/28/22 13:52	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		03/28/22 13:52	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		03/28/22 13:52	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		03/28/22 13:52	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-46592/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 46592

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			03/28/22 13:52	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			03/28/22 13:52	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			03/28/22 13:52	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			03/28/22 13:52	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			03/28/22 13:52	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			03/28/22 13:52	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			03/28/22 13:52	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 13:52	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			03/28/22 13:52	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			03/28/22 13:52	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 13:52	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			03/28/22 13:52	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			03/28/22 13:52	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			03/28/22 13:52	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			03/28/22 13:52	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			03/28/22 13:52	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			03/28/22 13:52	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			03/28/22 13:52	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			03/28/22 13:52	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			03/28/22 13:52	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			03/28/22 13:52	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			03/28/22 13:52	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 13:52	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			03/28/22 13:52	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			03/28/22 13:52	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			03/28/22 13:52	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 13:52	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			03/28/22 13:52	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			03/28/22 13:52	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			03/28/22 13:52	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			03/28/22 13:52	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			03/28/22 13:52	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			03/28/22 13:52	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			03/28/22 13:52	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			03/28/22 13:52	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			03/28/22 13:52	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			03/28/22 13:52	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			03/28/22 13:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		74 - 124		03/28/22 13:52	1
Dibromofluoromethane (Surr)	107		75 - 131		03/28/22 13:52	1
1,2-Dichloroethane-d4 (Surr)	114		63 - 144		03/28/22 13:52	1
Toluene-d8 (Surr)	104		80 - 117		03/28/22 13:52	1

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-46592/3

Matrix: Water

Analysis Batch: 46592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Benzene	0.0500	0.05455		mg/L		109	66 - 142
Bromobenzene	0.0500	0.06078		mg/L		122	75 - 125
Bromochloromethane	0.0500	0.05787		mg/L		116	60 - 140
Bromodichloromethane	0.0500	0.05832		mg/L		117	75 - 125
Bromoform	0.0500	0.06257		mg/L		125	75 - 125
Bromomethane	0.0500	0.04840		mg/L		97	60 - 140
2-Butanone	0.250	0.2723		mg/L		109	60 - 140
Chlorobenzene	0.0500	0.05794		mg/L		116	60 - 133
Chloroethane	0.0500	0.04552		mg/L		91	60 - 140
Chloroform	0.0500	0.05936		mg/L		119	70 - 130
Chloromethane	0.0500	0.04204		mg/L		84	60 - 140
2-Chlorotoluene	0.0500	0.06042		mg/L		121	73 - 125
4-Chlorotoluene	0.0500	0.05948		mg/L		119	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05366		mg/L		107	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05747		mg/L		115	74 - 125
1,2-Dibromoethane	0.0500	0.06014		mg/L		120	73 - 125
1,2-Dichlorobenzene	0.0500	0.05934		mg/L		119	75 - 125
1,3-Dichlorobenzene	0.0500	0.05885		mg/L		118	75 - 125
1,4-Dichlorobenzene	0.0500	0.05840		mg/L		117	75 - 125
1,1-Dichloroethane	0.0500	0.05087		mg/L		102	72 - 125
1,2-Dichloroethane	0.0500	0.06124		mg/L		122	68 - 127
1,1-Dichloroethene	0.0500	0.05223		mg/L		104	59 - 172
1,2-Dichloropropane	0.0500	0.04656		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.05530		mg/L		111	75 - 125
2,2-Dichloropropane	0.0500	0.06222		mg/L		124	75 - 125
1,1-Dichloropropene	0.0500	0.05893		mg/L		118	75 - 125
Ethylbenzene	0.0500	0.05779		mg/L		116	75 - 125
Isopropylbenzene	0.0500	0.06034		mg/L		121	75 - 125
Methylene Chloride	0.0500	0.04458		mg/L		89	75 - 125
m,p-Xylenes	0.0500	0.06061		mg/L		121	75 - 125
MTBE	0.0500	0.05689		mg/L		114	65 - 135
Naphthalene	0.0500	0.06438		mg/L		129	70 - 130
n-Butylbenzene	0.0500	0.05317		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.06009		mg/L		120	75 - 125
o-Xylene	0.0500	0.05844		mg/L		117	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05777		mg/L		116	75 - 125
sec-Butylbenzene	0.0500	0.06046		mg/L		121	75 - 125
Styrene	0.0500	0.05851		mg/L		117	75 - 125
tert-Butylbenzene	0.0500	0.05655		mg/L		113	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.06115		mg/L		122	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05526		mg/L		111	74 - 125
Tetrachloroethene	0.0500	0.05628		mg/L		113	71 - 125
Toluene	0.0500	0.05611		mg/L		112	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05076		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05663		mg/L		113	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06203		mg/L		124	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05968		mg/L		119	75 - 135
1,1,2-Trichloroethane	0.0500	0.05011		mg/L		100	75 - 127

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-46592/3

Matrix: Water

Analysis Batch: 46592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	0.0500	0.05753		mg/L		115	62 - 137
1,2,3-Trichloropropane	0.0500	0.06031		mg/L		121	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.06202		mg/L		124	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.06174		mg/L		123	60 - 140
Vinyl chloride	0.0500	0.05050		mg/L		101	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	108		75 - 131
1,2-Dichloroethane-d4 (Surr)	109		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Lab Sample ID: LCSD 860-46592/4

Matrix: Water

Analysis Batch: 46592

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05158		mg/L		103	66 - 142	6	25
Bromobenzene	0.0500	0.05234		mg/L		105	75 - 125	15	25
Bromochloromethane	0.0500	0.05509		mg/L		110	60 - 140	5	25
Bromodichloromethane	0.0500	0.05970		mg/L		119	75 - 125	2	25
Bromoform	0.0500	0.06026		mg/L		121	75 - 125	4	25
Bromomethane	0.0500	0.04547		mg/L		91	60 - 140	6	25
2-Butanone	0.250	0.2483		mg/L		99	60 - 140	9	25
Chlorobenzene	0.0500	0.05484		mg/L		110	60 - 133	5	25
Chloroethane	0.0500	0.04009		mg/L		80	60 - 140	13	25
Chloroform	0.0500	0.05446		mg/L		109	70 - 130	9	25
Chloromethane	0.0500	0.04010		mg/L		80	60 - 140	5	25
2-Chlorotoluene	0.0500	0.05511		mg/L		110	73 - 125	9	25
4-Chlorotoluene	0.0500	0.05448		mg/L		109	74 - 125	9	25
cis-1,2-Dichloroethene	0.0500	0.05111		mg/L		102	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.05289		mg/L		106	74 - 125	8	25
Dibromochloromethane	0.0500	0.06195		mg/L		124	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05991		mg/L		120	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.05520		mg/L		110	73 - 125	9	25
1,2-Dichlorobenzene	0.0500	0.05451		mg/L		109	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05378		mg/L		108	75 - 125	9	25
1,4-Dichlorobenzene	0.0500	0.05395		mg/L		108	75 - 125	8	25
1,1-Dichloroethane	0.0500	0.04646		mg/L		93	72 - 125	9	25
1,2-Dichloroethane	0.0500	0.06026		mg/L		121	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04892		mg/L		98	59 - 172	7	25
1,2-Dichloropropane	0.0500	0.04604		mg/L		92	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05352		mg/L		107	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05569		mg/L		111	75 - 125	11	25
1,1-Dichloropropene	0.0500	0.05126		mg/L		103	75 - 125	14	25
Ethylbenzene	0.0500	0.05498		mg/L		110	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.06239		mg/L		125	75 - 125	6	25
Isopropylbenzene	0.0500	0.05778		mg/L		116	75 - 125	4	25

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QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46592/4

Matrix: Water

Analysis Batch: 46592

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	0.0500	0.03955		mg/L		79	75 - 125	12	25
m,p-Xylenes	0.0500	0.05662		mg/L		113	75 - 125	7	25
MTBE	0.0500	0.05319		mg/L		106	65 - 135	7	25
Naphthalene	0.0500	0.05668		mg/L		113	70 - 130	13	25
n-Butylbenzene	0.0500	0.04798		mg/L		96	75 - 125	10	25
N-Propylbenzene	0.0500	0.05480		mg/L		110	75 - 125	9	25
o-Xylene	0.0500	0.05784		mg/L		116	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05347		mg/L		107	75 - 125	8	25
sec-Butylbenzene	0.0500	0.05472		mg/L		109	75 - 125	10	25
Styrene	0.0500	0.05580		mg/L		112	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05222		mg/L		104	75 - 125	8	25
1,1,1,2-Tetrachloroethane	0.0500	0.06195		mg/L		124	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05103		mg/L		102	74 - 125	8	25
Tetrachloroethene	0.0500	0.05270		mg/L		105	71 - 125	7	25
Toluene	0.0500	0.05384		mg/L		108	59 - 139	4	25
trans-1,2-Dichloroethene	0.0500	0.04880		mg/L		98	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05485		mg/L		110	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05411		mg/L		108	75 - 137	14	25
1,2,4-Trichlorobenzene	0.0500	0.05666		mg/L		113	75 - 135	5	25
1,1,2-Trichloroethane	0.0500	0.05138		mg/L		103	75 - 127	3	25
Trichloroethene	0.0500	0.05725		mg/L		115	62 - 137	0	25
1,2,3-Trichloropropane	0.0500	0.05041		mg/L		101	75 - 125	18	25
1,2,4-Trimethylbenzene	0.0500	0.05581		mg/L		112	75 - 125	11	25
1,3,5-Trimethylbenzene	0.0500	0.05642		mg/L		113	60 - 140	9	25
Vinyl chloride	0.0500	0.04445		mg/L		89	60 - 140	13	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	110		63 - 144
Toluene-d8 (Surr)	101		80 - 117

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

Lab Sample ID: MB 860-46471/1-A

Matrix: Water

Analysis Batch: 46403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46471

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		03/25/22 17:04	03/25/22 18:30	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		03/25/22 17:04	03/25/22 18:30	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		03/25/22 17:04	03/25/22 18:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	03/25/22 17:04	03/25/22 18:30	1
o-Terphenyl	109		70 - 135	03/25/22 17:04	03/25/22 18:30	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-46471/2-A

Matrix: Water

Analysis Batch: 46403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46471

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			Limits		
Gasoline Range Organics (GRO)-C6-C10			100	101.5		mg/L		101	70 - 135	
Diesel Range Organics (Over C10-C28)			99.7	89.45		mg/L		90	70 - 135	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	106		70 - 135							
o-Terphenyl	94		70 - 135							

Lab Sample ID: LCSD 860-46471/3-A

Matrix: Water

Analysis Batch: 46403

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46471

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec.	RPD	RPD
			Added	Result	Qualifier			Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			100	105.7		mg/L		106	4	35
Diesel Range Organics (Over C10-C28)			99.7	96.65		mg/L		97	8	35
									</	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46357/3

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/25/22 13:59	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/25/22 13:59	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/25/22 13:59	1

Lab Sample ID: MB 860-46357/39

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			03/25/22 21:19	1
Fluoride	<0.100	U	0.500	0.100 mg/L			03/25/22 21:19	1
Sulfate	<0.109	U	0.500	0.109 mg/L			03/25/22 21:19	1

Lab Sample ID: LCS 860-46357/40

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.406		mg/L		94	90 - 110
Fluoride	10.0	10.07		mg/L		101	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-46357/40

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.583		mg/L		96	90 - 110

Lab Sample ID: LCS 860-46357/6

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.406		mg/L		94	90 - 110
Fluoride	10.0	10.03		mg/L		100	90 - 110
Sulfate	10.0	9.615		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-46357/41

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.598		mg/L		96	90 - 110	2	20
Fluoride	10.0	10.13		mg/L		101	90 - 110	1	20
Sulfate	10.0	9.552		mg/L		96	90 - 110	0	20

Lab Sample ID: LCSD 860-46357/7

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.580		mg/L		96	90 - 110	2	20
Fluoride	10.0	10.12		mg/L		101	90 - 110	1	20
Sulfate	10.0	9.571		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-46357/5

Matrix: Water

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.500	0.5354		mg/L		107	50 - 150
Fluoride	0.500	0.4730	J	mg/L		95	50 - 150
Sulfate	0.500	0.5456		mg/L		109	50 - 150

Lab Sample ID: MB 860-46358/3

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/22 13:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/25/22 13:59	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-46358/39

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			03/25/22 21:19	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			03/25/22 21:19	1

Lab Sample ID: LCS 860-46358/40

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.397		mg/L		94	80 - 120
Nitrite as N	5.00	4.883		mg/L		98	80 - 120

Lab Sample ID: LCS 860-46358/6

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.392		mg/L		94	80 - 120
Nitrite as N	5.00	4.839		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-46358/41

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.440		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.907		mg/L		98	80 - 120	1	20

Lab Sample ID: LCSD 860-46358/7

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.385		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.867		mg/L		97	80 - 120	1	20

Lab Sample ID: LLCS 860-46358/4

Matrix: Water

Analysis Batch: 46358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.100	0.1337		mg/L		134	50 - 150
Nitrite as N	0.100	0.1009		mg/L		101	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-46499/3

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	mg/L			03/25/22 18:08	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			03/25/22 18:08	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			03/25/22 18:08	1

Lab Sample ID: LCS 860-46499/4

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	256.5		mg/L		103	85 - 115

Lab Sample ID: LCSD 860-46499/5

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	259.6		mg/L		104	85 - 115	1	20

Lab Sample ID: LLCS 860-46499/36

Matrix: Water

Analysis Batch: 46499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	50.0	57.59		mg/L		115	50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-12859-1 DU

Matrix: Water

Analysis Batch: 46524

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.4	20
Temperature	18.9	HF	18.9		Celsius		0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-46724/1

Matrix: Water

Analysis Batch: 46724

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	mg/L			03/28/22 19:26	1

Lab Sample ID: LCS 860-46724/2

Matrix: Water

Analysis Batch: 46724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	50.0	46.40		mg/L		93	80 - 120

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12859-1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCSD 860-46724/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 46724											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide			50.0	47.00		mg/L		94	80 - 120	1	20

Lab Sample ID: 880-12859-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 46724											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	<0.495	U	50.0	46.60		mg/L		93	80 - 120		

Lab Sample ID: 880-12859-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 46724											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	45.40		mg/L		91	80 - 120	3	20

QC Association Summary

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 46552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	8260C	
880-12859-2	MW-2	Total/NA	Water	8260C	
880-12859-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-46552/10	Method Blank	Total/NA	Water	8260C	
LCS 860-46552/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-46552/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 46592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-2 - RA	MW-2	Total/NA	Water	8260C	
MB 860-46592/8	Method Blank	Total/NA	Water	8260C	
LCS 860-46592/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-46592/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 46403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	8015B NM	46471
880-12859-2	MW-2	Total/NA	Water	8015B NM	46471
MB 860-46471/1-A	Method Blank	Total/NA	Water	8015B NM	46471
LCS 860-46471/2-A	Lab Control Sample	Total/NA	Water	8015B NM	46471
LCSD 860-46471/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	46471

Prep Batch: 46471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-12859-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-46471/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-46471/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-46471/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 46621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	8015 NM	
880-12859-2	MW-2	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 46357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	300.0	
880-12859-2	MW-2	Total/NA	Water	300.0	
880-12859-2	MW-2	Total/NA	Water	300.0	
MB 860-46357/3	Method Blank	Total/NA	Water	300.0	
MB 860-46357/39	Method Blank	Total/NA	Water	300.0	
LCS 860-46357/40	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-46357/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46357/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-46357/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46357/5	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC

Analysis Batch: 46358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	300.0	
880-12859-2	MW-2	Total/NA	Water	300.0	
MB 860-46358/3	Method Blank	Total/NA	Water	300.0	
MB 860-46358/39	Method Blank	Total/NA	Water	300.0	
LCS 860-46358/40	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-46358/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46358/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-46358/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46358/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 46459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-12859-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 46499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	SM 2320B	
880-12859-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-46499/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-46499/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-46499/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-46499/36	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 46524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-12859-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-12859-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 46724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12859-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12859-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-46724/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-46724/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-46724/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-12859-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-12859-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-12859-1

Date Collected: 03/24/22 11:30

Matrix: Water

Date Received: 03/24/22 15:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46552	03/28/22 12:05	NA	XEN STF
Total/NA	Analysis	8015 NM		1	46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			46471	03/25/22 17:04	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	46403	03/25/22 18:49	T1S	XEN STF
Total/NA	Analysis	300.0		1	46357	03/25/22 21:55	ANP	XEN STF
Total/NA	Analysis	300.0		1	46358	03/25/22 21:55	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	46499	03/25/22 18:58	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	46459	03/25/22 15:48	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	46524	03/26/22 13:31	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	46724	03/28/22 19:26	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-12859-2

Date Collected: 03/24/22 12:55

Matrix: Water

Date Received: 03/24/22 15:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46552	03/28/22 12:26	NA	XEN STF
Total/NA	Analysis	8260C	DL	5	46552	03/28/22 12:46	NA	XEN STF
Total/NA	Analysis	8260C	RA	1	46592	03/28/22 14:49	NA	XEN STF
Total/NA	Analysis	8015 NM		1	46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Aq Prep			46471	03/25/22 17:04	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	46403	03/25/22 19:09	T1S	XEN STF
Total/NA	Analysis	300.0		1	46357	03/25/22 22:07	ANP	XEN STF
Total/NA	Analysis	300.0		1	46358	03/25/22 22:07	ANP	XEN STF
Total/NA	Analysis	300.0		10	46357	03/25/22 22:19	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	46499	03/25/22 19:14	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	46459	03/25/22 15:48	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	46524	03/26/22 13:31	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	46724	03/28/22 19:26	YGG	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Midland

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12859-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum

Job ID: 880-12859-1

Project/Site: South Hobbs - 03B1417002

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-12859-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12859-1	MW-1	Water	03/24/22 11:30	03/24/22 15:18
880-12859-2	MW-2	Water	03/24/22 12:55	03/24/22 15:18

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 784-1296
Phoenix, AZ (602) 344-3444 Atlanta, GA (770) 449-8600 Tampa, FL (813) 289-3921
Hobbs, NM (575) 392-7550

Work C

www.xel



3/30/2022

Project Manager:	Beaux Jennings		Bill to: (if different)	
Company Name:	Ensolum LLC		Company Name:	
Address:	705 W Wadley #210		Address:	
City, State ZIP:	Midland TX		City, State ZIP:	
Phone:	432-230-3344	Email:	bjennings@ensolum.com	

Work Order Comments

Program: **UST/PST** ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☒ **Superfund** ☐

State of Project:

Reporting Level II ☐ **Level III** ☐ **PST/UST** ☐ **IRRP** ☐ **Level IV** ☐

Deliverables **EDD** ☐ **Adapt** ☐ **Other** ☐

Project Name:	South Hobbs	Turn Around	ANALYSIS REQUEST					Work Order Notes
Project Number:	03B1417002	Routine ☐						
P.O. Number:	03B1417002	Rush 24 Hr						
Sampler's Name:	Shane Dittler	Due Date	500 CO2 c	6.2	100			
	<i>Shane Dittler</i>							

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Log:	Yes	No
Temperature (°C):	53.59	Thermometer ID					
Received Intact:	(Yes)	No					
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

of Containers

d Carbon Dioxide 48

d Sulfide SW-846 #376

-846 #8260

Method #8015

EPA Method #846 30

SW-846 Method 150.1

TAT starts the day received by the lab if received by 4:30pm

[illegible]

	Total 200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA	13PPM	Texas 11
	8RCRA	13PPM	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
	TCLP / SPLP 6010	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
			1631 / 245.1 / 7470 / 7471
			Hd

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$3 for each sample submitted to 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 		3/24/23	2		
3			4		
5		1512	6		

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CUSTODY SEAL
Date 3-24-2022
Signature [Signature]

Thermo
SCIENTIFIC

90009

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12859-1

Login Number: 12859

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-12859-1

Login Number: 12859

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/25/22 03:28 PM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-13153-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:
4/6/2022 12:08:47 PM

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: South Hobbs - 03B1417002

Laboratory Job ID: 880-13153-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
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Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Job ID: 880-13153-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-13153-1

Receipt

The samples were received on 3/31/2022 3:54 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/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (880-13153-2). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-47217 contained Sulfate above the method detection limit (MDL) . Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-47217 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The method blank for analytical batch 860-47217 contained sulfate above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-13153-1

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 12:20	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			04/01/22 12:20	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			04/01/22 12:20	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			04/01/22 12:20	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			04/01/22 12:20	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			04/01/22 12:20	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			04/01/22 12:20	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			04/01/22 12:20	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			04/01/22 12:20	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			04/01/22 12:20	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			04/01/22 12:20	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			04/01/22 12:20	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 12:20	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			04/01/22 12:20	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			04/01/22 12:20	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			04/01/22 12:20	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			04/01/22 12:20	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			04/01/22 12:20	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			04/01/22 12:20	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			04/01/22 12:20	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			04/01/22 12:20	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 12:20	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			04/01/22 12:20	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			04/01/22 12:20	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			04/01/22 12:20	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			04/01/22 12:20	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			04/01/22 12:20	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			04/01/22 12:20	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			04/01/22 12:20	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			04/01/22 12:20	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			04/01/22 12:20	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 12:20	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			04/01/22 12:20	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			04/01/22 12:20	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			04/01/22 12:20	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			04/01/22 12:20	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			04/01/22 12:20	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			04/01/22 12:20	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			04/01/22 12:20	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			04/01/22 12:20	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			04/01/22 12:20	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 12:20	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			04/01/22 12:20	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			04/01/22 12:20	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			04/01/22 12:20	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			04/01/22 12:20	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 12:20	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 12:20	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			04/01/22 12:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Client Sample ID: MW-1
Date Collected: 03/31/22 09:50
Date Received: 03/31/22 15:54

Lab Sample ID: 880-13153-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L			04/01/22 12:20	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/01/22 12:20	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L			04/01/22 12:20	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L			04/01/22 12:20	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L			04/01/22 12:20	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L			04/01/22 12:20	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L			04/01/22 12:20	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L			04/01/22 12:20	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L			04/01/22 12:20	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L			04/01/22 12:20	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L			04/01/22 12:20	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			04/01/22 12:20	1
Total BTEX	<0.000214	U	0.0100	0.000214	mg/L			04/01/22 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124					04/01/22 12:20	1
Dibromofluoromethane (Surr)	99		75 - 131					04/01/22 12:20	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144					04/01/22 12:20	1
Toluene-d8 (Surr)	103		80 - 117					04/01/22 12:20	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.926	U	4.69	0.926	mg/L			04/06/22 10:10	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	<0.926	U	4.69	0.926	mg/L		04/04/22 13:47	04/04/22 14:26	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926	mg/L		04/04/22 13:47	04/04/22 14:26	1
Oil Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		04/04/22 13:47	04/04/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135				04/04/22 13:47	04/04/22 14:26	1
o-Terphenyl	97		70 - 135				04/04/22 13:47	04/04/22 14:26	1

Method: 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		0.500	0.200	mg/L			04/02/22 00:59	1
Nitrate as N	0.164		0.100	0.0391	mg/L			04/02/22 00:59	1
Fluoride	0.568		0.500	0.100	mg/L			04/02/22 00:59	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			04/02/22 00:59	1
Sulfate	40.4	B	0.500	0.109	mg/L			04/02/22 00:59	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	275		4.00	4.00	mg/L			04/01/22 15:27	1
Bicarbonate Alkalinity as CaCO3	275		4.00	4.00	mg/L			04/01/22 15:27	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			04/01/22 15:27	1
Carbon dioxide	286				mg/L			04/04/22 17:22	1
Carbon Dioxide, Free	43.7				mg/L			04/04/22 17:22	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Client Sample ID: MW-1

Lab Sample ID: 880-13153-1

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF		SU			04/01/22 15:09	1
Temperature	19.0	HF		Celsius			04/01/22 15:09	1
Sulfide	<0.495	U	5.00	0.495 mg/L			04/01/22 16:08	1

Client Sample ID: MW-2

Lab Sample ID: 880-13153-2

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0305		0.00100	0.000214 mg/L			04/01/22 12:41	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			04/01/22 12:41	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			04/01/22 12:41	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			04/01/22 12:41	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			04/01/22 12:41	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			04/01/22 12:41	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			04/01/22 12:41	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			04/01/22 12:41	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			04/01/22 12:41	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			04/01/22 12:41	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			04/01/22 12:41	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			04/01/22 12:41	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 12:41	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			04/01/22 12:41	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			04/01/22 12:41	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			04/01/22 12:41	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			04/01/22 12:41	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			04/01/22 12:41	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			04/01/22 12:41	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			04/01/22 12:41	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			04/01/22 12:41	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 12:41	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			04/01/22 12:41	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			04/01/22 12:41	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			04/01/22 12:41	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			04/01/22 12:41	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			04/01/22 12:41	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			04/01/22 12:41	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			04/01/22 12:41	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			04/01/22 12:41	1
Ethylbenzene	0.0274		0.00100	0.000515 mg/L			04/01/22 12:41	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 12:41	1
Isopropylbenzene	0.00896		0.00100	0.000161 mg/L			04/01/22 12:41	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			04/01/22 12:41	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			04/01/22 12:41	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			04/01/22 12:41	1
n-Butylbenzene	0.00102		0.00100	0.000286 mg/L			04/01/22 12:41	1
N-Propylbenzene	0.00203		0.00100	0.000179 mg/L			04/01/22 12:41	1
o-Xylene	0.0311		0.00100	0.000192 mg/L			04/01/22 12:41	1
p-Cymene (p-Isopropyltoluene)	0.00138		0.00100	0.000233 mg/L			04/01/22 12:41	1

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Client Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-13153-2

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00142		0.00100	0.000199 mg/L			04/01/22 12:41	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			04/01/22 12:41	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			04/01/22 12:41	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			04/01/22 12:41	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			04/01/22 12:41	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 12:41	1
Toluene	0.0309		0.00100	0.000500 mg/L			04/01/22 12:41	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			04/01/22 12:41	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			04/01/22 12:41	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 12:41	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 12:41	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			04/01/22 12:41	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			04/01/22 12:41	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			04/01/22 12:41	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			04/01/22 12:41	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			04/01/22 12:41	1
1,2,4-Trimethylbenzene	0.0551		0.00100	0.000252 mg/L			04/01/22 12:41	1
1,3,5-Trimethylbenzene	0.0138		0.00100	0.000279 mg/L			04/01/22 12:41	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			04/01/22 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		04/01/22 12:41	1
Dibromofluoromethane (Surr)	101		75 - 131		04/01/22 12:41	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		04/01/22 12:41	1
Toluene-d8 (Surr)	102		80 - 117		04/01/22 12:41	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.267		0.0500	0.00165 mg/L			04/01/22 13:01	5
Xylenes, Total	0.311		0.0500	0.00165 mg/L			04/01/22 13:01	5
Total BTEX	0.435		0.0500	0.00107 mg/L			04/01/22 13:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		04/01/22 13:01	5
Dibromofluoromethane (Surr)	102		75 - 131		04/01/22 13:01	5
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		04/01/22 13:01	5
Toluene-d8 (Surr)	101		80 - 117		04/01/22 13:01	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.28	J	4.75	0.938 mg/L			04/06/22 10:10	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	1.28	J	4.75	0.938 mg/L		04/04/22 13:47	04/04/22 14:45	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938 mg/L		04/04/22 13:47	04/04/22 14:45	1
Oil Range Organics (Over C28-C36)	<0.905	U	4.75	0.905 mg/L		04/04/22 13:47	04/04/22 14:45	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Client Sample ID: MW-2
Date Collected: 03/31/22 09:50
Date Received: 03/31/22 15:54

Lab Sample ID: 880-13153-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135	04/04/22 13:47	04/04/22 14:45	1
o-Terphenyl	92		70 - 135	04/04/22 13:47	04/04/22 14:45	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		0.500	0.200 mg/L			04/02/22 01:34	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			04/02/22 01:34	1
Fluoride	<0.100	U	0.500	0.100 mg/L			04/02/22 01:34	1
Nitrite as N	1.65		0.100	0.0293 mg/L			04/02/22 01:34	1
Sulfate	106	B	5.00	1.09 mg/L			04/02/22 01:46	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1340		4.00	4.00 mg/L			04/01/22 15:43	1
Bicarbonate Alkalinity as CaCO3	1340		4.00	4.00 mg/L			04/01/22 15:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			04/01/22 15:43	1
Carbon dioxide	2520			mg/L			04/04/22 17:22	1
Carbon Dioxide, Free	1340			mg/L			04/04/22 17:22	1
pH	6.3	HF		SU			04/01/22 15:09	1
Temperature	19.0	HF		Celsius			04/01/22 15:09	1
Sulfide	<0.495	U	5.00	0.495 mg/L			04/01/22 16:08	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Method: 8260C - Volatile Organic Compounds by GC/MS
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
870-6815-C-1 MS	Matrix Spike	99	101	102	99
880-13153-1	MW-1	105	99	108	103
880-13153-2	MW-2	101	101	106	102
880-13153-2 - DL	MW-2	104	102	105	101
LCS 860-47222/3	Lab Control Sample	103	101	101	101
LCSD 860-47222/4	Lab Control Sample Dup	101	103	103	100
MB 860-47222/10	Method Blank	104	100	103	102
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-13153-1	MW-1	89	97
880-13153-2	MW-2	83	92
LCS 860-47514/2-A	Lab Control Sample	102	100
LCSD 860-47514/3-A	Lab Control Sample Dup	106	102
MB 860-47514/1-A	Method Blank	85	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-47222/10

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 10:38	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			04/01/22 10:38	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			04/01/22 10:38	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			04/01/22 10:38	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			04/01/22 10:38	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			04/01/22 10:38	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			04/01/22 10:38	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			04/01/22 10:38	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			04/01/22 10:38	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			04/01/22 10:38	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			04/01/22 10:38	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			04/01/22 10:38	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			04/01/22 10:38	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			04/01/22 10:38	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			04/01/22 10:38	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			04/01/22 10:38	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			04/01/22 10:38	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			04/01/22 10:38	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			04/01/22 10:38	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			04/01/22 10:38	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			04/01/22 10:38	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 10:38	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			04/01/22 10:38	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			04/01/22 10:38	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			04/01/22 10:38	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			04/01/22 10:38	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			04/01/22 10:38	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			04/01/22 10:38	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			04/01/22 10:38	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			04/01/22 10:38	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			04/01/22 10:38	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 10:38	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			04/01/22 10:38	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			04/01/22 10:38	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			04/01/22 10:38	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			04/01/22 10:38	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			04/01/22 10:38	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			04/01/22 10:38	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			04/01/22 10:38	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			04/01/22 10:38	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			04/01/22 10:38	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			04/01/22 10:38	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			04/01/22 10:38	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			04/01/22 10:38	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			04/01/22 10:38	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			04/01/22 10:38	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 10:38	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			04/01/22 10:38	1

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QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-47222/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47222

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			04/01/22 10:38	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			04/01/22 10:38	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 10:38	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			04/01/22 10:38	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			04/01/22 10:38	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			04/01/22 10:38	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			04/01/22 10:38	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			04/01/22 10:38	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			04/01/22 10:38	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			04/01/22 10:38	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			04/01/22 10:38	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			04/01/22 10:38	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			04/01/22 10:38	1
Total BTEX	<0.000214	U	0.0100	0.000214 mg/L			04/01/22 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		04/01/22 10:38	1
Dibromofluoromethane (Surr)	100		75 - 131		04/01/22 10:38	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		04/01/22 10:38	1
Toluene-d8 (Surr)	102		80 - 117		04/01/22 10:38	1

Lab Sample ID: LCS 860-47222/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04683		mg/L		94	66 - 142
Bromobenzene	0.0500	0.04997		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.04800		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04817		mg/L		96	75 - 125
Bromoform	0.0500	0.04805		mg/L		96	75 - 125
Bromomethane	0.0500	0.05380		mg/L		108	60 - 140
2-Butanone	0.250	0.2248		mg/L		90	60 - 140
Carbon tetrachloride	0.0500	0.04950		mg/L		99	62 - 125
Chlorobenzene	0.0500	0.04738		mg/L		95	60 - 133
Chloroethane	0.0500	0.05230		mg/L		105	60 - 140
Chloroform	0.0500	0.04892		mg/L		98	70 - 130
Chloromethane	0.0500	0.04999		mg/L		100	60 - 140
2-Chlorotoluene	0.0500	0.04967		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04962		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04806		mg/L		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04810		mg/L		96	74 - 125
Dibromochloromethane	0.0500	0.04750		mg/L		95	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04691		mg/L		94	59 - 125
1,2-Dibromoethane	0.0500	0.04728		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.04973		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04970		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.04985		mg/L		100	75 - 125

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-47222/3

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0500	0.04996		mg/L		100	70 - 130
1,1-Dichloroethane	0.0500	0.04795		mg/L		96	72 - 125
1,2-Dichloroethane	0.0500	0.04852		mg/L		97	68 - 127
1,1-Dichloroethene	0.0500	0.04660		mg/L		93	59 - 172
1,2-Dichloropropane	0.0500	0.04759		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04779		mg/L		96	75 - 125
2,2-Dichloropropane	0.0500	0.04838		mg/L		97	75 - 125
1,1-Dichloropropene	0.0500	0.04721		mg/L		94	75 - 125
Ethylbenzene	0.0500	0.04775		mg/L		95	75 - 125
Hexachlorobutadiene	0.0500	0.05044		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.04766		mg/L		95	75 - 125
Methylene Chloride	0.0500	0.04723		mg/L		94	75 - 125
m,p-Xylenes	0.0500	0.04753		mg/L		95	75 - 125
MTBE	0.0500	0.04803		mg/L		96	65 - 135
Naphthalene	0.0500	0.04890		mg/L		98	70 - 130
n-Butylbenzene	0.0500	0.04992		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04952		mg/L		99	75 - 125
o-Xylene	0.0500	0.04798		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04924		mg/L		98	75 - 125
sec-Butylbenzene	0.0500	0.05003		mg/L		100	75 - 125
Styrene	0.0500	0.04770		mg/L		95	75 - 125
tert-Butylbenzene	0.0500	0.05030		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04853		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04946		mg/L		99	74 - 125
Tetrachloroethene	0.0500	0.04692		mg/L		94	71 - 125
Toluene	0.0500	0.04714		mg/L		94	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04777		mg/L		96	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04844		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04853		mg/L		97	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04971		mg/L		99	75 - 135
1,1,1-Trichloroethane	0.0500	0.04772		mg/L		95	75 - 125
1,1,2-Trichloroethane	0.0500	0.04823		mg/L		96	75 - 127
Trichloroethene	0.0500	0.04670		mg/L		93	62 - 137
Trichlorofluoromethane	0.0500	0.05187		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.04969		mg/L		99	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04997		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04926		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04960		mg/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	101		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-47222/4

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04756		mg/L		95	66 - 142	2	25
Bromobenzene	0.0500	0.04901		mg/L		98	75 - 125	2	25
Bromochloromethane	0.0500	0.04908		mg/L		98	60 - 140	2	25
Bromodichloromethane	0.0500	0.04869		mg/L		97	75 - 125	1	25
Bromoform	0.0500	0.04870		mg/L		97	75 - 125	1	25
Bromomethane	0.0500	0.05531		mg/L		111	60 - 140	3	25
2-Butanone	0.250	0.2484		mg/L		99	60 - 140	10	25
Carbon tetrachloride	0.0500	0.05261		mg/L		105	62 - 125	6	25
Chlorobenzene	0.0500	0.04743		mg/L		95	60 - 133	0	25
Chloroethane	0.0500	0.05426		mg/L		109	60 - 140	4	25
Chloroform	0.0500	0.04942		mg/L		99	70 - 130	1	25
Chloromethane	0.0500	0.05104		mg/L		102	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04914		mg/L		98	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04910		mg/L		98	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04898		mg/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04898		mg/L		98	74 - 125	2	25
Dibromochloromethane	0.0500	0.04795		mg/L		96	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05112		mg/L		102	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04784		mg/L		96	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04924		mg/L		98	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04876		mg/L		98	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04897		mg/L		98	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.05318		mg/L		106	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04895		mg/L		98	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.04970		mg/L		99	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04818		mg/L		96	59 - 172	3	25
1,2-Dichloropropane	0.0500	0.04816		mg/L		96	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04817		mg/L		96	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04970		mg/L		99	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04920		mg/L		98	75 - 125	4	25
Ethylbenzene	0.0500	0.04807		mg/L		96	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05453		mg/L		109	75 - 125	8	25
Isopropylbenzene	0.0500	0.04877		mg/L		98	75 - 125	2	25
Methylene Chloride	0.0500	0.04744		mg/L		95	75 - 125	0	25
m,p-Xylenes	0.0500	0.04786		mg/L		96	75 - 125	1	25
MTBE	0.0500	0.05066		mg/L		101	65 - 135	5	25
Naphthalene	0.0500	0.05205		mg/L		104	70 - 130	6	25
n-Butylbenzene	0.0500	0.05156		mg/L		103	75 - 125	3	25
N-Propylbenzene	0.0500	0.04979		mg/L		100	75 - 125	1	25
o-Xylene	0.0500	0.04789		mg/L		96	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05060		mg/L		101	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05135		mg/L		103	75 - 125	3	25
Styrene	0.0500	0.04734		mg/L		95	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05055		mg/L		101	75 - 125	0	25
1,1,1,2-Tetrachloroethane	0.0500	0.04835		mg/L		97	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.05032		mg/L		101	74 - 125	2	25
Tetrachloroethene	0.0500	0.04870		mg/L		97	71 - 125	4	25
Toluene	0.0500	0.04681		mg/L		94	59 - 139	1	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-47222/4

Matrix: Water

Analysis Batch: 47222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.04943		mg/L		99	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.04845		mg/L		97	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05189		mg/L		104	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05192		mg/L		104	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.04916		mg/L		98	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04869		mg/L		97	75 - 127	1	25
Trichloroethene	0.0500	0.04778		mg/L		96	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.05414		mg/L		108	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.05035		mg/L		101	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.05003		mg/L		100	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04934		mg/L		99	60 - 140	0	25
Vinyl chloride	0.0500	0.05186		mg/L		104	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 117

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

Lab Sample ID: MB 860-47514/1-A

Matrix: Water

Analysis Batch: 47471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47514

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		04/04/22 13:47	04/04/22 14:45	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		04/04/22 13:47	04/04/22 14:45	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		04/04/22 13:47	04/04/22 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	04/04/22 13:47	04/04/22 14:45	1
o-Terphenyl	100		70 - 135	04/04/22 13:47	04/04/22 14:45	1

Lab Sample ID: LCS 860-47514/2-A

Matrix: Water

Analysis Batch: 47471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	101	100.5		mg/L		100	70 - 135
Diesel Range Organics (Over C10-C28)	100	94.37		mg/L		94	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 135
o-Terphenyl	100		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-47514/3-A

Matrix: Water

Analysis Batch: 47471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	101	107.2		mg/L		106	70 - 135	6	35
Diesel Range Organics (Over C10-C28)	100	101.1		mg/L		101	70 - 135	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 135						
o-Terphenyl	102		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-47217/51

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200 mg/L			04/01/22 22:01	1
Fluoride	<0.100	U	0.500	0.100 mg/L			04/01/22 22:01	1
Sulfate	0.2021	J	0.500	0.109 mg/L			04/01/22 22:01	1

Lab Sample ID: LCS 860-47217/52

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.36		mg/L		104	90 - 110
Fluoride	10.0	10.21		mg/L		102	90 - 110
Sulfate	10.0	9.746		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-47217/53

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.751		mg/L		98	90 - 110	6	20
Fluoride	10.0	10.37		mg/L		104	90 - 110	2	20
Sulfate	10.0	9.791		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-47217/5

Matrix: Water

Analysis Batch: 47217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5519		mg/L		110	50 - 150
Fluoride	0.500	0.5337		mg/L		107	50 - 150
Sulfate	0.500	0.5550		mg/L		111	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-13153-1 MS

Matrix: Water

Analysis Batch: 47217

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	143		10.0	149.2	4	mg/L		61	90 - 110
Fluoride	0.568		10.0	11.31		mg/L		107	90 - 110
Sulfate	40.4	B	10.0	50.89	4	mg/L		105	90 - 110

Lab Sample ID: 880-13153-1 MSD

Matrix: Water

Analysis Batch: 47217

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	143		10.0	149.4	4	mg/L		63	90 - 110	0	20
Fluoride	0.568		10.0	11.38		mg/L		108	90 - 110	1	20
Sulfate	40.4	B	10.0	50.91	4	mg/L		105	90 - 110	0	20

Lab Sample ID: MB 860-47218/51

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			04/01/22 22:01	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			04/01/22 22:01	1

Lab Sample ID: LCS 860-47218/52

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.847		mg/L		98	80 - 120
Nitrite as N	5.00	5.021		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-47218/136

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.793		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.983		mg/L		100	80 - 120	1	20

Lab Sample ID: LCSD 860-47218/7

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.735		mg/L		97	80 - 120	1	20
Nitrite as N	5.00	4.965		mg/L		99	80 - 120	1	20

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QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-47218/4

Matrix: Water

Analysis Batch: 47218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1358		mg/L		136	50 - 150
Nitrite as N	0.100	0.1073		mg/L		107	50 - 150

Lab Sample ID: 880-13153-1 MS

Matrix: Water

Analysis Batch: 47218

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.164		10.0	10.27		mg/L		101	80 - 120
Nitrite as N	<0.0293	U	2.50	2.323		mg/L		93	80 - 120

Lab Sample ID: 880-13153-1 MSD

Matrix: Water

Analysis Batch: 47218

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.164		10.0	10.26		mg/L		101	80 - 120	0	15
Nitrite as N	<0.0293	U	2.50	2.324		mg/L		93	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-47363/3

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			04/01/22 14:36	1

Lab Sample ID: LCS 860-47363/4

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	266.4		mg/L		107	85 - 115

Lab Sample ID: LCSD 860-47363/5

Matrix: Water

Analysis Batch: 47363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	272.4		mg/L		109	85 - 115	2	20

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QC Sample Results

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-47346/1

Matrix: Water

Analysis Batch: 47346

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.495	U	5.00	0.495 mg/L			04/01/22 16:08	1

Lab Sample ID: LCS 860-47346/2

Matrix: Water

Analysis Batch: 47346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	44.80		mg/L		90	80 - 120

Lab Sample ID: LCSD 860-47346/3

Matrix: Water

Analysis Batch: 47346

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	44.40		mg/L		89	80 - 120	1	20

Lab Sample ID: 880-13153-1 MS

Matrix: Water

Analysis Batch: 47346

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.495	U	50.0	44.80		mg/L		90	80 - 120

Lab Sample ID: 880-13153-1 MSD

Matrix: Water

Analysis Batch: 47346

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	45.60		mg/L		91	80 - 120	2	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-13153-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 47222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	8260C	
880-13153-2	MW-2	Total/NA	Water	8260C	
880-13153-2 - DL	MW-2	Total/NA	Water	8260C	
MB 860-47222/10	Method Blank	Total/NA	Water	8260C	
LCS 860-47222/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-47222/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 47471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-47514/1-A	Method Blank	Total/NA	Water	8015B NM	47514
LCS 860-47514/2-A	Lab Control Sample	Total/NA	Water	8015B NM	47514
LCSD 860-47514/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	47514

Analysis Batch: 47473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	8015B NM	47514
880-13153-2	MW-2	Total/NA	Water	8015B NM	47514

Prep Batch: 47514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-13153-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-47514/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-47514/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-47514/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 47787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	8015 NM	
880-13153-2	MW-2	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 47217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	300.0	
880-13153-2	MW-2	Total/NA	Water	300.0	
880-13153-2	MW-2	Total/NA	Water	300.0	
MB 860-47217/51	Method Blank	Total/NA	Water	300.0	
LCS 860-47217/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47217/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47217/5	Lab Control Sample	Total/NA	Water	300.0	
880-13153-1 MS	MW-1	Total/NA	Water	300.0	
880-13153-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 47218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	300.0	
880-13153-2	MW-2	Total/NA	Water	300.0	
MB 860-47218/51	Method Blank	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

HPLC/IC (Continued)

Analysis Batch: 47218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-47218/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-47218/136	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-47218/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-47218/4	Lab Control Sample	Total/NA	Water	300.0	
880-13153-1 MS	MW-1	Total/NA	Water	300.0	
880-13153-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 47325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-13153-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 47346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13153-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-47346/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-47346/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-47346/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-13153-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-13153-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 47363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	SM 2320B	
880-13153-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-47363/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-47363/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-47363/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 47563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13153-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-13153-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Client Sample ID: MW-1

Lab Sample ID: 880-13153-1

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	47222	04/01/22 12:20	NA	XEN STF
Total/NA	Analysis	8015 NM		1	47787	04/06/22 10:10	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			47514	04/04/22 13:47	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	47473	04/04/22 14:26	SAR	XEN STF
Total/NA	Analysis	300.0		1	47217	04/02/22 00:59	A1S	XEN STF
Total/NA	Analysis	300.0		1	47218	04/02/22 00:59	A1S	XEN STF
Total/NA	Analysis	SM 2320B		1	47363	04/01/22 15:27	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	47563	04/04/22 17:22	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	47325	04/01/22 15:09	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	47346	04/01/22 16:08	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-13153-2

Date Collected: 03/31/22 09:50

Matrix: Water

Date Received: 03/31/22 15:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	47222	04/01/22 12:41	NA	XEN STF
Total/NA	Analysis	8260C	DL	5	47222	04/01/22 13:01	NA	XEN STF
Total/NA	Analysis	8015 NM		1	47787	04/06/22 10:10	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			47514	04/04/22 13:47	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	47473	04/04/22 14:45	SAR	XEN STF
Total/NA	Analysis	300.0		1	47217	04/02/22 01:34	A1S	XEN STF
Total/NA	Analysis	300.0		1	47218	04/02/22 01:34	A1S	XEN STF
Total/NA	Analysis	300.0		10	47217	04/02/22 01:46	A1S	XEN STF
Total/NA	Analysis	SM 2320B		1	47363	04/01/22 15:43	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	47563	04/04/22 17:22	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	47325	04/01/22 15:09	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	47346	04/01/22 16:08	YGG	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
8260C		Water	Total BTEX
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
SM 4500 H+ B	pH	SM	XEN STF
SM 4500 S2 F	Sulfide, Total	SM	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-13153-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13153-1	MW-1	Water	03/31/22 09:50	03/31/22 15:54
880-13153-2	MW-2	Water	03/31/22 09:50	03/31/22 15:54

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



Chain of Custody

Work Order No: 13153

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3333
Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 994-1296
(576-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813)

Hobbs, NM (505-392-1550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenningss@ensolum.com

Work Order Comments
Program: UST/PT ☐ PPR ☐ Brownfields ☐ RRC ☒ Superfund ☐
State of Project:
Reporting Level I ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ AdAPT ☐ Other ☐

Project Name:	South Hobbs	Turn Around	ANALYSIS REQUEST	Work Order Notes
Project Number:	03B1417002	Routine ☐		
P.O. Number:	03B1417002	Rush 24 Hr		
Sampler's Name:	Shene Dinec Aaron Marquez AM	Due Date		
SAMPLE RECEIPT				
Temperature (°C):	29.150	Temp Blank: Yes (No) Wet Ice: Yes (No)	Thermometer ID	
Received Intact:	Yes (No)			
Cooler Custody Seals:	Yes (No)		Correction Factor:	-1
Sample Custody Seals:	Yes (No)		Total Containers:	
Number of Containers				
Reduced Carbon Dioxide 4500 CO2 c				
Reduced Sulfide SW-846 #376.2				
SW-846 #8260				
SW-846 Method #8015				
SW-846 Method #846 300				
SW-846 Method 150.1				
TAT starts the day received by the lab, if received by 4:30pm				

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolved	Dissolved	VOC SW	TPH EP	Chloride	pH EPA	Sample Comments	
MW-1	GW	3-31-22	1105	75'	7	X	X	X	X	X	X	X	X	X	X	24 Hr	
MW-2	GW	3-31-22	1215	85'	7	X	X	X	X	X	X	X	X	X	X		
 880-13153 Chain of Custody																	



880-13153 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:
8RCRA	13PPM	Texas 11
Al	Sb	As
Ba	Be	B
Cd	Ca	Cr
Co	Cu	Fe
Mn	Mo	Ni
K	Se	Aq
SiO ₂	Na	Sr
Tl	Sn	U
V	Y	Zn

Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010
Sb	8RCRA
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 Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		3/31/32			
		1554			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13153-1

Login Number: 13153

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-13153-1

Login Number: 13153

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 04/01/22 11:26 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



ANALYTICAL REPORT

March 14, 2022

Ensolum, LLC

Sample Delivery Group: L1469932
Samples Received: 03/10/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

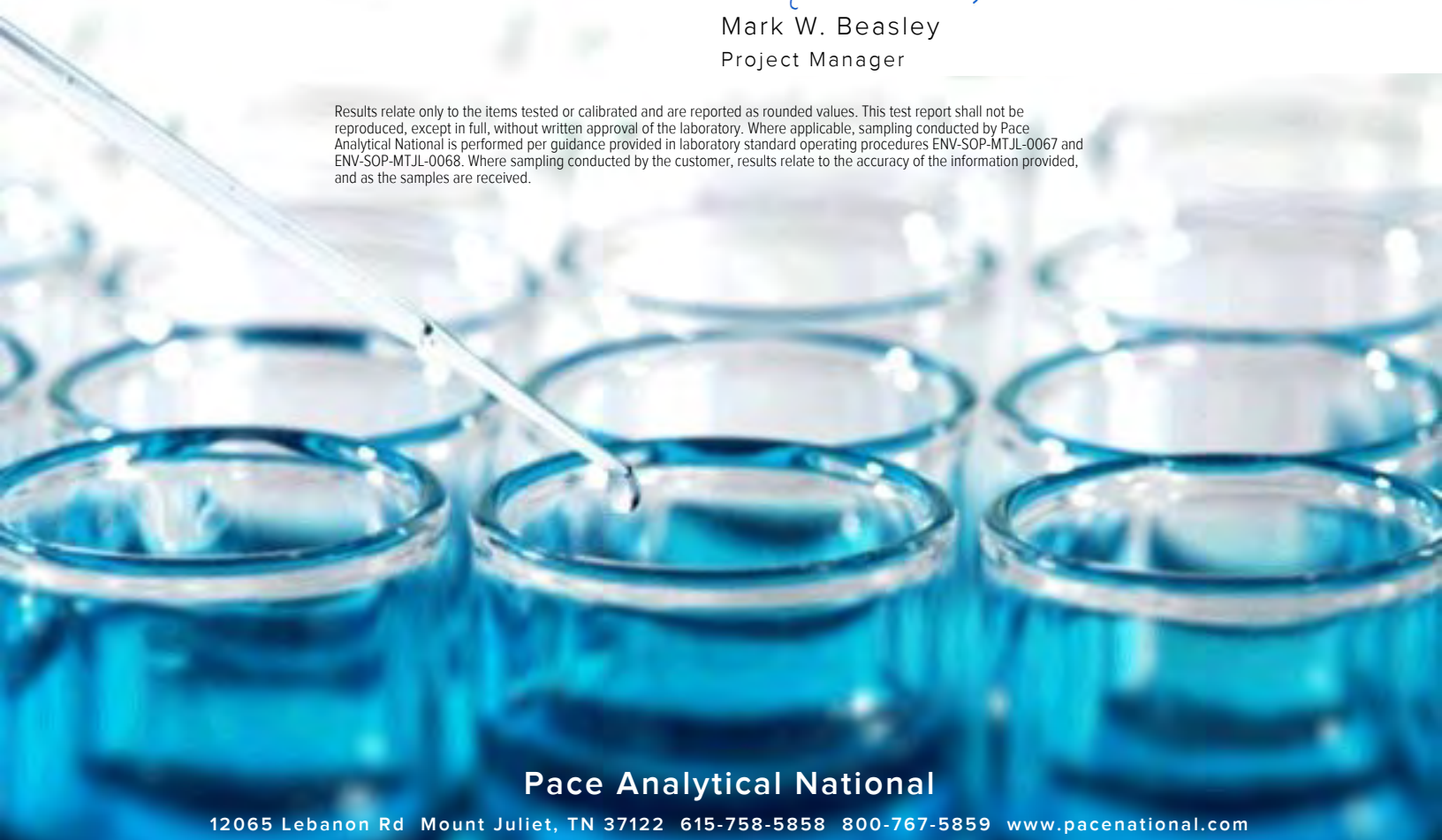


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1469932-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1469932-01 Air

Collected by
Shane Diller

Collected date/time
03/09/22 12:25

Received date/time
03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1831556	200	03/14/22 00:34	03/14/22 00:34	FKG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 03/14/2022 16:11					
Project Name: Levey Well		Laboratory Job Number: L1469932-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1831556					
#1	A2	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/14/2022 16:11				
Project Name: Levey Well			Laboratory Job Number: L1469932-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1831556				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/14/2022 16:11	
Project Name: Levey Well		Laboratory Job Number: L1469932-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1831556	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/09/22 12:25

L1469932

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	250	594	949	2260		200	WG1831556
Allyl chloride	107-05-1	76.53	40.0	125	ND	ND		200	WG1831556
Benzene	71-43-2	78.10	40.0	128	ND	ND		200	WG1831556
Benzyl Chloride	100-44-7	127	40.0	208	ND	ND		200	WG1831556
Bromodichloromethane	75-27-4	164	40.0	268	ND	ND		200	WG1831556
Bromoform	75-25-2	253	120	1240	ND	ND		200	WG1831556
Bromomethane	74-83-9	94.90	40.0	155	ND	ND		200	WG1831556
1,3-Butadiene	106-99-0	54.10	400	885	ND	ND		200	WG1831556
Carbon disulfide	75-15-0	76.10	40.0	124	ND	ND		200	WG1831556
Carbon tetrachloride	56-23-5	154	40.0	252	ND	ND		200	WG1831556
Chlorobenzene	108-90-7	113	40.0	185	ND	ND		200	WG1831556
Chloroethane	75-00-3	64.50	40.0	106	ND	ND		200	WG1831556
Chloroform	67-66-3	119	40.0	195	ND	ND		200	WG1831556
Chloromethane	74-87-3	50.50	40.0	82.6	ND	ND		200	WG1831556
2-Chlorotoluene	95-49-8	126	40.0	206	ND	ND		200	WG1831556
Cyclohexane	110-82-7	84.20	40.0	138	12600	43400		200	WG1831556
Dibromochloromethane	124-48-1	208	40.0	340	ND	ND		200	WG1831556
1,2-Dibromoethane	106-93-4	188	40.0	308	ND	ND		200	WG1831556
1,2-Dichlorobenzene	95-50-1	147	40.0	240	ND	ND		200	WG1831556
1,3-Dichlorobenzene	541-73-1	147	40.0	240	ND	ND		200	WG1831556
1,4-Dichlorobenzene	106-46-7	147	40.0	240	ND	ND		200	WG1831556
1,2-Dichloroethane	107-06-2	99	40.0	162	ND	ND		200	WG1831556
1,1-Dichloroethane	75-34-3	98	40.0	160	ND	ND		200	WG1831556
1,1-Dichloroethene	75-35-4	96.90	40.0	159	ND	ND		200	WG1831556
cis-1,2-Dichloroethene	156-59-2	96.90	40.0	159	ND	ND		200	WG1831556
trans-1,2-Dichloroethene	156-60-5	96.90	40.0	159	ND	ND		200	WG1831556
1,2-Dichloropropane	78-87-5	113	40.0	185	ND	ND		200	WG1831556
cis-1,3-Dichloropropene	10061-01-5	111	40.0	182	ND	ND		200	WG1831556
trans-1,3-Dichloropropene	10061-02-6	111	40.0	182	ND	ND		200	WG1831556
1,4-Dioxane	123-91-1	88.10	40.0	144	ND	ND		200	WG1831556
Ethanol	64-17-5	46.10	250	471	ND	ND		200	WG1831556
Ethylbenzene	100-41-4	106	40.0	173	ND	ND		200	WG1831556
4-Ethyltoluene	622-96-8	120	40.0	196	ND	ND		200	WG1831556
Trichlorofluoromethane	75-69-4	137.40	40.0	225	ND	ND		200	WG1831556
Dichlorodifluoromethane	75-71-8	120.92	40.0	198	ND	ND		200	WG1831556
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	40.0	307	ND	ND		200	WG1831556
1,2-Dichlorotetrafluoroethane	76-14-2	171	40.0	280	ND	ND		200	WG1831556
Heptane	142-82-5	100	40.0	164	2070	8470		200	WG1831556
Hexachloro-1,3-butadiene	87-68-3	261	126	1350	ND	ND		200	WG1831556
n-Hexane	110-54-3	86.20	126	444	11700	41200		200	WG1831556
Isopropylbenzene	98-82-8	120.20	40.0	197	ND	ND		200	WG1831556
Methylene Chloride	75-09-2	84.90	40.0	139	ND	ND		200	WG1831556
Methyl Butyl Ketone	591-78-6	100	250	1020	ND	ND		200	WG1831556
2-Butanone (MEK)	78-93-3	72.10	250	737	ND	ND		200	WG1831556
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	250	1020	ND	ND		200	WG1831556
Methyl methacrylate	80-62-6	100.12	40.0	164	ND	ND		200	WG1831556
MTBE	1634-04-4	88.10	40.0	144	ND	ND		200	WG1831556
Naphthalene	91-20-3	128	126	660	ND	ND		200	WG1831556
2-Propanol	67-63-0	60.10	250	615	2170	5330		200	WG1831556
Propene	115-07-1	42.10	250	430	ND	ND		200	WG1831556
Styrene	100-42-5	104	40.0	170	ND	ND		200	WG1831556
1,1,2,2-Tetrachloroethane	79-34-5	168	40.0	275	ND	ND		200	WG1831556
Tetrachloroethylene	127-18-4	166	40.0	272	ND	ND		200	WG1831556
Tetrahydrofuran	109-99-9	72.10	40.0	118	ND	ND		200	WG1831556
Toluene	108-88-3	92.10	100	377	ND	ND		200	WG1831556
1,2,4-Trichlorobenzene	120-82-1	181	126	933	ND	ND		200	WG1831556

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/09/22 12:25

L1469932

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	40.0	218	ND	ND		200	WG1831556
1,1,2-Trichloroethane	79-00-5	133	40.0	218	ND	ND		200	WG1831556
Trichloroethylene	79-01-6	131	40.0	214	ND	ND		200	WG1831556
1,2,4-Trimethylbenzene	95-63-6	120	40.0	196	ND	ND		200	WG1831556
1,3,5-Trimethylbenzene	108-67-8	120	40.0	196	ND	ND		200	WG1831556
2,2,4-Trimethylpentane	540-84-1	114.22	40.0	187	ND	ND		200	WG1831556
Vinyl chloride	75-01-4	62.50	40.0	102	ND	ND		200	WG1831556
Vinyl Bromide	593-60-2	106.95	40.0	175	ND	ND		200	WG1831556
Vinyl acetate	108-05-4	86.10	40.0	141	ND	ND		200	WG1831556
m&p-Xylene	1330-20-7	106	80.0	347	ND	ND		200	WG1831556
o-Xylene	95-47-6	106	40.0	173	ND	ND		200	WG1831556
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	85200	352000		200	WG1831556
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.7				WG1831556

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R3769289-2 03/13/22 10:23

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3769289-2 03/13/22 10:23

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.244	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	96.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3769289-1 03/13/22 08:55 • (LCSD) R3769289-3 03/13/22 11:08

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.75	3.86	100	103	70.0-130			2.89	25
Allyl Chloride	3.75	3.87	3.86	103	103	70.0-130			0.259	25
Benzene	3.75	3.81	3.85	102	103	70.0-130			1.04	25
Benzyl Chloride	3.75	4.23	4.35	113	116	70.0-152			2.80	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3769289-1 03/13/22 08:55 • (LCSD) R3769289-3 03/13/22 11:08

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.73	3.80	99.5	101	70.0-130			1.86	25
Bromoform	3.75	3.78	3.78	101	101	70.0-130			0.000	25
Bromomethane	3.75	3.91	3.94	104	105	70.0-130			0.764	25
1,3-Butadiene	3.75	3.57	3.65	95.2	97.3	70.0-130			2.22	25
Carbon disulfide	3.75	3.83	3.82	102	102	70.0-130			0.261	25
Carbon tetrachloride	3.75	3.77	3.89	101	104	70.0-130			3.13	25
Chlorobenzene	3.75	3.68	3.91	98.1	104	70.0-130			6.06	25
Chloroethane	3.75	3.92	3.86	105	103	70.0-130			1.54	25
Chloroform	3.75	3.78	3.86	101	103	70.0-130			2.09	25
Chloromethane	3.75	3.74	3.77	99.7	101	70.0-130			0.799	25
2-Chlorotoluene	3.75	3.97	4.03	106	107	70.0-130			1.50	25
Cyclohexane	3.75	3.86	3.90	103	104	70.0-130			1.03	25
Dibromochloromethane	3.75	3.68	3.87	98.1	103	70.0-130			5.03	25
1,2-Dibromoethane	3.75	3.69	3.91	98.4	104	70.0-130			5.79	25
1,2-Dichlorobenzene	3.75	3.99	3.96	106	106	70.0-130			0.755	25
1,3-Dichlorobenzene	3.75	4.11	4.12	110	110	70.0-130			0.243	25
1,4-Dichlorobenzene	3.75	4.29	4.31	114	115	70.0-130			0.465	25
1,2-Dichloroethane	3.75	3.62	3.82	96.5	102	70.0-130			5.38	25
1,1-Dichloroethane	3.75	3.81	3.88	102	103	70.0-130			1.82	25
1,1-Dichloroethene	3.75	3.80	3.86	101	103	70.0-130			1.57	25
cis-1,2-Dichloroethene	3.75	3.76	3.83	100	102	70.0-130			1.84	25
trans-1,2-Dichloroethene	3.75	3.73	3.81	99.5	102	70.0-130			2.12	25
1,2-Dichloropropane	3.75	3.75	3.78	100	101	70.0-130			0.797	25
cis-1,3-Dichloropropene	3.75	3.74	3.77	99.7	101	70.0-130			0.799	25
trans-1,3-Dichloropropene	3.75	3.80	3.86	101	103	70.0-130			1.57	25
1,4-Dioxane	3.75	3.58	3.52	95.5	93.9	70.0-140			1.69	25
Ethanol	3.75	3.64	3.69	97.1	98.4	55.0-148			1.36	25
Ethylbenzene	3.75	3.94	3.99	105	106	70.0-130			1.26	25
4-Ethyltoluene	3.75	3.97	3.96	106	106	70.0-130			0.252	25
Trichlorofluoromethane	3.75	3.83	3.95	102	105	70.0-130			3.08	25
Dichlorodifluoromethane	3.75	3.70	3.80	98.7	101	64.0-139			2.67	25
1,1,2-Trichlorotrifluoroethane	3.75	3.86	3.92	103	105	70.0-130			1.54	25
1,2-Dichlorotetrafluoroethane	3.75	3.84	3.94	102	105	70.0-130			2.57	25
Heptane	3.75	3.71	3.81	98.9	102	70.0-130			2.66	25
Hexachloro-1,3-butadiene	3.75	3.98	3.61	106	96.3	70.0-151			9.75	25
n-Hexane	3.75	3.83	3.84	102	102	70.0-130			0.261	25
Isopropylbenzene	3.75	3.85	3.88	103	103	70.0-130			0.776	25
Methylene Chloride	3.75	3.74	3.82	99.7	102	70.0-130			2.12	25
Methyl Butyl Ketone	3.75	3.72	3.81	99.2	102	70.0-149			2.39	25
Methyl Ethyl Ketone	3.75	3.90	3.89	104	104	70.0-130			0.257	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3769289-1 03/13/22 08:55 • (LCSD) R3769289-3 03/13/22 11:08

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.70	3.75	98.7	100	70.0-139			1.34	25
Methyl Methacrylate	3.75	3.76	3.80	100	101	70.0-130			1.06	25
MTBE	3.75	3.80	3.90	101	104	70.0-130			2.60	25
Naphthalene	3.75	4.59	4.35	122	116	70.0-159			5.37	25
2-Propanol	3.75	3.82	3.84	102	102	70.0-139			0.522	25
Propene	3.75	3.63	3.67	96.8	97.9	64.0-144			1.10	25
Styrene	3.75	3.93	3.95	105	105	70.0-130			0.508	25
1,1,2,2-Tetrachloroethane	3.75	3.79	3.87	101	103	70.0-130			2.09	25
Tetrachloroethylene	3.75	3.73	3.75	99.5	100	70.0-130			0.535	25
Tetrahydrofuran	3.75	3.73	3.74	99.5	99.7	70.0-137			0.268	25
Toluene	3.75	3.75	3.77	100	101	70.0-130			0.532	25
1,2,4-Trichlorobenzene	3.75	4.86	4.50	130	120	70.0-160			7.69	25
1,1,1-Trichloroethane	3.75	3.83	3.92	102	105	70.0-130			2.32	25
1,1,2-Trichloroethane	3.75	3.67	3.73	97.9	99.5	70.0-130			1.62	25
Trichloroethylene	3.75	3.68	3.72	98.1	99.2	70.0-130			1.08	25
1,2,4-Trimethylbenzene	3.75	3.91	3.94	104	105	70.0-130			0.764	25
1,3,5-Trimethylbenzene	3.75	3.91	4.00	104	107	70.0-130			2.28	25
2,2,4-Trimethylpentane	3.75	3.87	3.89	103	104	70.0-130			0.515	25
Vinyl chloride	3.75	3.82	3.94	102	105	70.0-130			3.09	25
Vinyl Bromide	3.75	3.87	3.93	103	105	70.0-130			1.54	25
Vinyl acetate	3.75	4.11	4.21	110	112	70.0-130			2.40	25
m&p-Xylene	7.50	7.72	7.88	103	105	70.0-130			2.05	25
o-Xylene	3.75	3.83	3.88	102	103	70.0-130			1.30	25
TPH (GC/MS) Low Fraction	203	214	209	105	103	70.0-130			2.36	25
(S) 1,4-Bromofluorobenzene				98.7	99.9	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

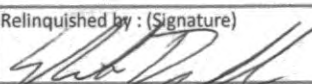
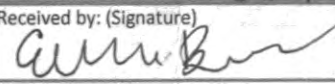
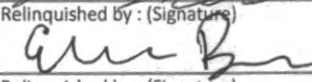
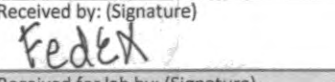
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Ensolum, LLC 705 W. Wadley Ave, Ste 210 Midland, TX 79705		Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page 327 of 434		
Report to: Beaux Jennings		Email To: bjennings@ensolum.com													 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf		
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET												SDG # 11469932 D222	
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA												Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB:	
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001												Shipped Via:	
Collected by (signature):		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote #												Remarks Sample # (lab only)	
Immediately Packed on Ice N ☒ Y ☐		Date Results Needed		No. of Cntrs													
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time												
Levey Well	G	Air		3-9-22	1225	1	X										
<i>NFE 3-9-22</i>																	
Matrix:		Remarks:		pH _____ Temp _____		Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N											
SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking # 45101659 6365		Trip Blank Received: Yes ☒ No ☐ HCL/MeOH TBR											
Relinquished by: (Signature)		Date: 03/9/22		Time: 1500		Received by: (Signature)		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time					
								AMB		1							
Relinquished by: (Signature)		Date: 03/9/22		Time: 1700		Received by: (Signature)		Date: _____		Time: _____		Hold:					
								3-10-22		9:15		Condition: NCF / OK					



ANALYTICAL REPORT

March 18, 2022

Ensolum, LLC

Sample Delivery Group: L1471407
Samples Received: 03/15/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

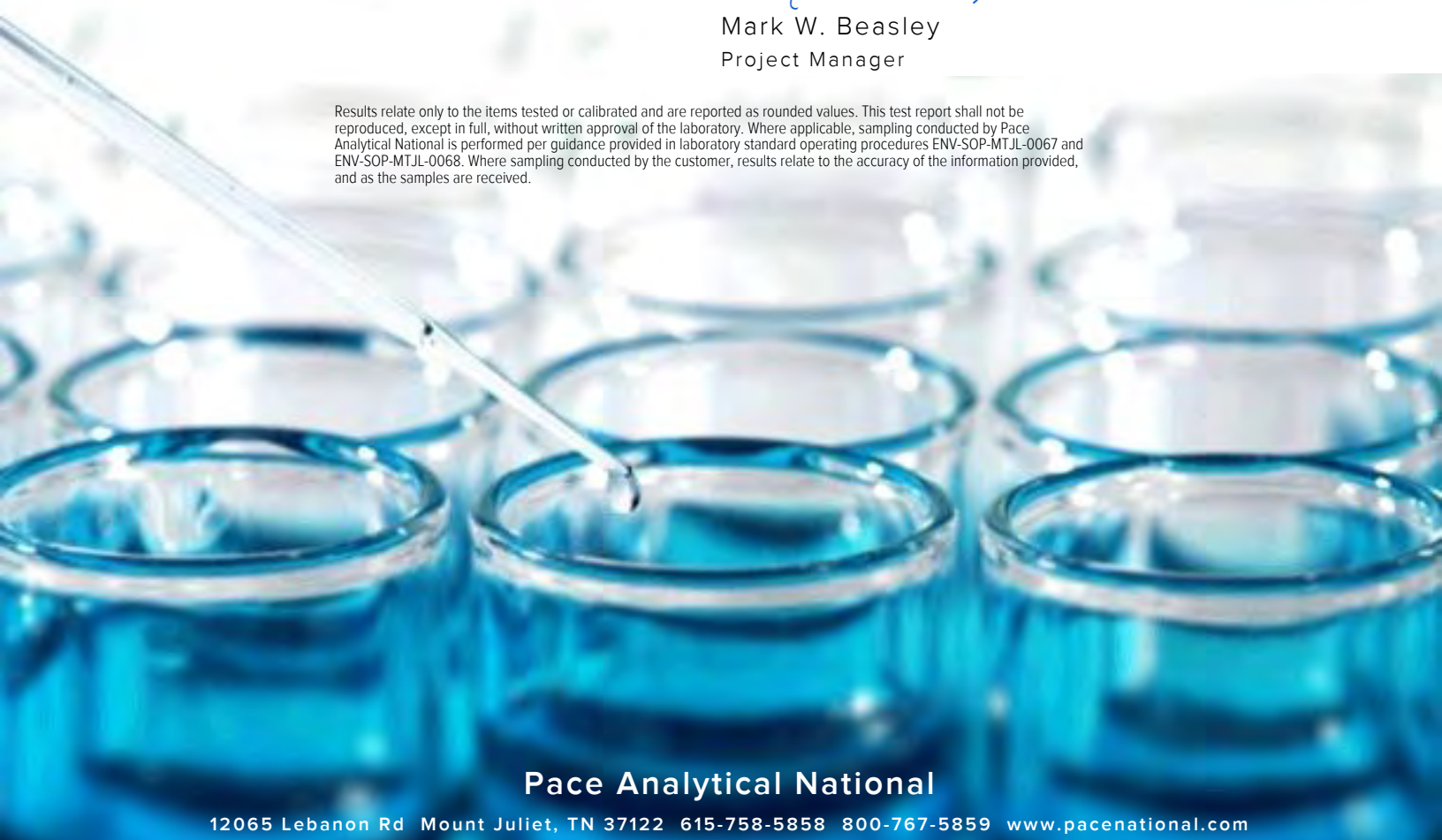


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1471407-01	9	⁶ Sr
LEVEY WELL L1471407-02	11	
LEVEY WELL L1471407-03	13	⁷ Qc
LEVEY WELL L1471407-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	22	
Al: Accreditations & Locations	23	¹⁰ Sc
Sc: Sample Chain of Custody	24	

LEVEY WELL L1471407-01 Air

Collected by Aaron Marquez
Collected date/time 03/14/22 08:55
Received date/time 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1833913	100	03/17/22 12:43	03/17/22 12:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1834728	2000	03/18/22 13:59	03/18/22 13:59	MBF	Mt. Juliet, TN

¹Cp

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⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1471407-02 Air

Collected by Aaron Marquez
Collected date/time 03/14/22 09:23
Received date/time 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1833913	4	03/17/22 13:09	03/17/22 13:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1834728	400	03/18/22 14:40	03/18/22 14:40	MBF	Mt. Juliet, TN

LEVEY WELL L1471407-03 Air

Collected by Aaron Marquez
Collected date/time 03/14/22 10:00
Received date/time 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1833913	1	03/17/22 13:39	03/17/22 13:39	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1834728	10	03/18/22 13:18	03/18/22 13:18	MBF	Mt. Juliet, TN

LEVEY WELL L1471407-04 Air

Collected by Aaron Marquez
Collected date/time 03/14/22 11:26
Received date/time 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1833913	4	03/17/22 14:05	03/17/22 14:05	DAH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 03/18/2022 16:11				
Project Name: Levey Well			Laboratory Job Number: L1471407-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1833913 and WG1834728				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/18/2022 16:11				
Project Name: Levey Well			Laboratory Job Number: L1471407-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1833913 and WG1834728				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/18/2022 16:11	
Project Name: Levey Well		Laboratory Job Number: L1471407-01, 02, 03 and 04	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1833913 and WG1834728	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/14/22 08:55

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1833913
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1833913
Benzene	71-43-2	78.10	20.0	63.9	34.4	110		100	WG1833913
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1833913
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1833913
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1833913
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1833913
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1833913
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1833913
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1833913
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1833913
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1833913
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1833913
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1833913
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1833913
Cyclohexane	110-82-7	84.20	400	1380	80300	277000		2000	WG1834728
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1833913
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1833913
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1833913
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1833913
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1833913
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1833913
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1833913
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1833913
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1833913
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1833913
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1833913
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1833913
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1833913
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1833913
Ethanol	64-17-5	46.10	125	236	188	354	B	100	WG1833913
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1833913
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1833913
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1833913
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1833913
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1833913
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1833913
Heptane	142-82-5	100	20.0	81.8	8180	33500		100	WG1833913
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1833913
n-Hexane	110-54-3	86.20	1260	4440	81100	286000		2000	WG1834728
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1833913
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1833913
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1833913
2-Butanone (MEK)	78-93-3	72.10	125	369	303	894		100	WG1833913
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1833913
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1833913
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1833913
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1833913
2-Propanol	67-63-0	60.10	125	307	2870	7050		100	WG1833913
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1833913
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1833913
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1833913
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1833913
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1833913
Toluene	108-88-3	92.10	50.0	188	67.4	254		100	WG1833913
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1833913

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/14/22 08:55

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	20.0	109	ND	ND		100	WG1833913
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1833913
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1833913
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1833913
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	32.1	158		100	WG1833913
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1833913
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1833913
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1833913
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1833913
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1833913
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1833913
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	298000	1230000		100	WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.7				WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.0				WG1834728

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 03/14/22 09:23

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	5.00	11.9	ND	ND		4	WG1833913
Allyl chloride	107-05-1	76.53	0.800	2.50	ND	ND		4	WG1833913
Benzene	71-43-2	78.10	0.800	2.56	2.38	7.60		4	WG1833913
Benzyl Chloride	100-44-7	127	0.800	4.16	ND	ND		4	WG1833913
Bromodichloromethane	75-27-4	164	0.800	5.37	ND	ND		4	WG1833913
Bromoform	75-25-2	253	2.40	24.8	ND	ND		4	WG1833913
Bromomethane	74-83-9	94.90	0.800	3.11	ND	ND		4	WG1833913
1,3-Butadiene	106-99-0	54.10	8.00	17.7	ND	ND		4	WG1833913
Carbon disulfide	75-15-0	76.10	0.800	2.49	ND	ND		4	WG1833913
Carbon tetrachloride	56-23-5	154	0.800	5.04	ND	ND		4	WG1833913
Chlorobenzene	108-90-7	113	0.800	3.70	ND	ND		4	WG1833913
Chloroethane	75-00-3	64.50	0.800	2.11	ND	ND		4	WG1833913
Chloroform	67-66-3	119	0.800	3.89	ND	ND		4	WG1833913
Chloromethane	74-87-3	50.50	0.800	1.65	ND	ND		4	WG1833913
2-Chlorotoluene	95-49-8	126	0.800	4.12	1.38	7.11		4	WG1833913
Cyclohexane	110-82-7	84.20	80.0	276	903	3110		400	WG1834728
Dibromochloromethane	124-48-1	208	0.800	6.81	ND	ND		4	WG1833913
1,2-Dibromoethane	106-93-4	188	0.800	6.15	ND	ND		4	WG1833913
1,2-Dichlorobenzene	95-50-1	147	0.800	4.81	ND	ND		4	WG1833913
1,3-Dichlorobenzene	541-73-1	147	0.800	4.81	ND	ND		4	WG1833913
1,4-Dichlorobenzene	106-46-7	147	0.800	4.81	ND	ND		4	WG1833913
1,2-Dichloroethane	107-06-2	99	0.800	3.24	ND	ND		4	WG1833913
1,1-Dichloroethane	75-34-3	98	0.800	3.21	ND	ND		4	WG1833913
1,1-Dichloroethene	75-35-4	96.90	0.800	3.17	ND	ND		4	WG1833913
cis-1,2-Dichloroethene	156-59-2	96.90	0.800	3.17	ND	ND		4	WG1833913
trans-1,2-Dichloroethene	156-60-5	96.90	0.800	3.17	ND	ND		4	WG1833913
1,2-Dichloropropane	78-87-5	113	0.800	3.70	ND	ND		4	WG1833913
cis-1,3-Dichloropropene	10061-01-5	111	0.800	3.63	ND	ND		4	WG1833913
trans-1,3-Dichloropropene	10061-02-6	111	0.800	3.63	ND	ND		4	WG1833913
1,4-Dioxane	123-91-1	88.10	0.800	2.88	ND	ND		4	WG1833913
Ethanol	64-17-5	46.10	5.00	9.43	ND	ND		4	WG1833913
Ethylbenzene	100-41-4	106	0.800	3.47	3.57	15.5		4	WG1833913
4-Ethyltoluene	622-96-8	120	0.800	3.93	5.45	26.7		4	WG1833913
Trichlorofluoromethane	75-69-4	137.40	0.800	4.50	ND	ND		4	WG1833913
Dichlorodifluoromethane	75-71-8	120.92	0.800	3.96	ND	ND		4	WG1833913
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.800	6.13	ND	ND		4	WG1833913
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.800	5.60	ND	ND		4	WG1833913
Heptane	142-82-5	100	0.800	3.27	351	1440		4	WG1833913
Hexachloro-1,3-butadiene	87-68-3	261	2.52	26.9	ND	ND		4	WG1833913
n-Hexane	110-54-3	86.20	252	888	2180	7690		400	WG1834728
Isopropylbenzene	98-82-8	120.20	0.800	3.93	1.63	8.01		4	WG1833913
Methylene Chloride	75-09-2	84.90	0.800	2.78	ND	ND		4	WG1833913
Methyl Butyl Ketone	591-78-6	100	5.00	20.4	ND	ND		4	WG1833913
2-Butanone (MEK)	78-93-3	72.10	5.00	14.7	13.1	38.6		4	WG1833913
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.00	20.5	ND	ND		4	WG1833913
Methyl methacrylate	80-62-6	100.12	0.800	3.28	ND	ND		4	WG1833913
MTBE	1634-04-4	88.10	0.800	2.88	ND	ND		4	WG1833913
Naphthalene	91-20-3	128	2.52	13.2	ND	ND		4	WG1833913
2-Propanol	67-63-0	60.10	5.00	12.3	21.6	53.1		4	WG1833913
Propene	115-07-1	42.10	5.00	8.61	ND	ND		4	WG1833913
Styrene	100-42-5	104	0.800	3.40	ND	ND		4	WG1833913
1,1,2,2-Tetrachloroethane	79-34-5	168	0.800	5.50	ND	ND		4	WG1833913
Tetrachloroethylene	127-18-4	166	0.800	5.43	ND	ND		4	WG1833913
Tetrahydrofuran	109-99-9	72.10	0.800	2.36	ND	ND		4	WG1833913
Toluene	108-88-3	92.10	2.00	7.53	7.65	28.8		4	WG1833913
1,2,4-Trichlorobenzene	120-82-1	181	2.52	18.7	ND	ND		4	WG1833913

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/14/22 09:23

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.800	4.35	ND	ND		4	WG1833913
1,1,2-Trichloroethane	79-00-5	133	0.800	4.35	ND	ND		4	WG1833913
Trichloroethylene	79-01-6	131	0.800	4.29	ND	ND		4	WG1833913
1,2,4-Trimethylbenzene	95-63-6	120	0.800	3.93	5.00	24.5		4	WG1833913
1,3,5-Trimethylbenzene	108-67-8	120	0.800	3.93	11.7	57.4		4	WG1833913
2,2,4-Trimethylpentane	540-84-1	114.22	0.800	3.74	ND	ND		4	WG1833913
Vinyl chloride	75-01-4	62.50	0.800	2.04	ND	ND		4	WG1833913
Vinyl Bromide	593-60-2	106.95	0.800	3.50	ND	ND		4	WG1833913
Vinyl acetate	108-05-4	86.10	0.800	2.82	ND	ND		4	WG1833913
m&p-Xylene	1330-20-7	106	1.60	6.94	6.98	30.3		4	WG1833913
o-Xylene	95-47-6	106	0.800	3.47	2.78	12.1		4	WG1833913
TPH (GC/MS) Low Fraction	8006-61-9	101	800	3300	11600	47900		4	WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		108				WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.8				WG1834728

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Collected date/time: 03/14/22 10:00

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG1833913
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1833913
Benzene	71-43-2	78.10	0.200	0.639	0.597	1.91		1	WG1833913
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1833913
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1833913
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1833913
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1833913
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1833913
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1833913
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1833913
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1833913
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1833913
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1833913
Chloromethane	74-87-3	50.50	0.200	0.413	0.869	1.79		1	WG1833913
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1833913
Cyclohexane	110-82-7	84.20	2.00	6.89	171	589		10	WG1834728
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1833913
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1833913
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1833913
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1833913
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1833913
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1833913
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1833913
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1833913
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1833913
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1833913
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1833913
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1833913
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1833913
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1833913
Ethanol	64-17-5	46.10	1.25	2.36	4.89	9.22		1	WG1833913
Ethylbenzene	100-41-4	106	0.200	0.867	0.805	3.49		1	WG1833913
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.875	4.29		1	WG1833913
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.211	1.19		1	WG1833913
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.480	2.37		1	WG1833913
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1833913
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1833913
Heptane	142-82-5	100	0.200	0.818	57.2	234		1	WG1833913
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1833913
n-Hexane	110-54-3	86.20	6.30	22.2	112	395		10	WG1834728
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.328	1.61		1	WG1833913
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.274	0.951		1	WG1833913
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1833913
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	4.02	11.9		1	WG1833913
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1833913
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1833913
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1833913
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1833913
2-Propanol	67-63-0	60.10	1.25	3.07	3.91	9.61		1	WG1833913
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1833913
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1833913
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1833913
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1833913
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1833913
Toluene	108-88-3	92.10	0.500	1.88	2.38	8.97		1	WG1833913
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1833913

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/14/22 10:00

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1833913
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1833913
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1833913
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.18	5.79		1	WG1833913
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	2.18	10.7		1	WG1833913
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1833913
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1833913
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1833913
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1833913
m&p-Xylene	1330-20-7	106	0.400	1.73	2.14	9.28		1	WG1833913
o-Xylene	95-47-6	106	0.200	0.867	0.793	3.44		1	WG1833913
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	1920	7930		1	WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		105				WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.0				WG1834728

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 03/14/22 11:26

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	5.00	11.9	69.5	165		4	WG1833913
Allyl chloride	107-05-1	76.53	0.800	2.50	ND	ND		4	WG1833913
Benzene	71-43-2	78.10	0.800	2.56	25.4	81.1		4	WG1833913
Benzyl Chloride	100-44-7	127	0.800	4.16	ND	ND		4	WG1833913
Bromodichloromethane	75-27-4	164	0.800	5.37	ND	ND		4	WG1833913
Bromoform	75-25-2	253	2.40	24.8	ND	ND		4	WG1833913
Bromomethane	74-83-9	94.90	0.800	3.11	ND	ND		4	WG1833913
1,3-Butadiene	106-99-0	54.10	8.00	17.7	ND	ND		4	WG1833913
Carbon disulfide	75-15-0	76.10	0.800	2.49	1.68	5.23		4	WG1833913
Carbon tetrachloride	56-23-5	154	0.800	5.04	ND	ND		4	WG1833913
Chlorobenzene	108-90-7	113	0.800	3.70	ND	ND		4	WG1833913
Chloroethane	75-00-3	64.50	0.800	2.11	ND	ND		4	WG1833913
Chloroform	67-66-3	119	0.800	3.89	ND	ND		4	WG1833913
Chloromethane	74-87-3	50.50	0.800	1.65	ND	ND		4	WG1833913
2-Chlorotoluene	95-49-8	126	0.800	4.12	ND	ND		4	WG1833913
Cyclohexane	110-82-7	84.20	0.800	2.76	221	761		4	WG1833913
Dibromochloromethane	124-48-1	208	0.800	6.81	ND	ND		4	WG1833913
1,2-Dibromoethane	106-93-4	188	0.800	6.15	ND	ND		4	WG1833913
1,2-Dichlorobenzene	95-50-1	147	0.800	4.81	ND	ND		4	WG1833913
1,3-Dichlorobenzene	541-73-1	147	0.800	4.81	ND	ND		4	WG1833913
1,4-Dichlorobenzene	106-46-7	147	0.800	4.81	ND	ND		4	WG1833913
1,2-Dichloroethane	107-06-2	99	0.800	3.24	ND	ND		4	WG1833913
1,1-Dichloroethane	75-34-3	98	0.800	3.21	ND	ND		4	WG1833913
1,1-Dichloroethene	75-35-4	96.90	0.800	3.17	ND	ND		4	WG1833913
cis-1,2-Dichloroethene	156-59-2	96.90	0.800	3.17	ND	ND		4	WG1833913
trans-1,2-Dichloroethene	156-60-5	96.90	0.800	3.17	ND	ND		4	WG1833913
1,2-Dichloropropane	78-87-5	113	0.800	3.70	ND	ND		4	WG1833913
cis-1,3-Dichloropropene	10061-01-5	111	0.800	3.63	ND	ND		4	WG1833913
trans-1,3-Dichloropropene	10061-02-6	111	0.800	3.63	ND	ND		4	WG1833913
1,4-Dioxane	123-91-1	88.10	0.800	2.88	ND	ND		4	WG1833913
Ethanol	64-17-5	46.10	5.00	9.43	25.9	48.8		4	WG1833913
Ethylbenzene	100-41-4	106	0.800	3.47	260	1130		4	WG1833913
4-Ethyltoluene	622-96-8	120	0.800	3.93	48.1	236		4	WG1833913
Trichlorofluoromethane	75-69-4	137.40	0.800	4.50	ND	ND		4	WG1833913
Dichlorodifluoromethane	75-71-8	120.92	0.800	3.96	ND	ND		4	WG1833913
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.800	6.13	ND	ND		4	WG1833913
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.800	5.60	ND	ND		4	WG1833913
Heptane	142-82-5	100	0.800	3.27	90.2	369		4	WG1833913
Hexachloro-1,3-butadiene	87-68-3	261	2.52	26.9	ND	ND		4	WG1833913
n-Hexane	110-54-3	86.20	2.52	8.88	140	494		4	WG1833913
Isopropylbenzene	98-82-8	120.20	0.800	3.93	69.5	342		4	WG1833913
Methylene Chloride	75-09-2	84.90	0.800	2.78	ND	ND		4	WG1833913
Methyl Butyl Ketone	591-78-6	100	5.00	20.4	ND	ND		4	WG1833913
2-Butanone (MEK)	78-93-3	72.10	5.00	14.7	13.4	39.5		4	WG1833913
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5.00	20.5	ND	ND		4	WG1833913
Methyl methacrylate	80-62-6	100.12	0.800	3.28	ND	ND		4	WG1833913
MTBE	1634-04-4	88.10	0.800	2.88	ND	ND		4	WG1833913
Naphthalene	91-20-3	128	2.52	13.2	ND	ND		4	WG1833913
2-Propanol	67-63-0	60.10	5.00	12.3	106	261		4	WG1833913
Propene	115-07-1	42.10	5.00	8.61	ND	ND		4	WG1833913
Styrene	100-42-5	104	0.800	3.40	ND	ND		4	WG1833913
1,1,2,2-Tetrachloroethane	79-34-5	168	0.800	5.50	ND	ND		4	WG1833913
Tetrachloroethylene	127-18-4	166	0.800	5.43	ND	ND		4	WG1833913
Tetrahydrofuran	109-99-9	72.10	0.800	2.36	ND	ND		4	WG1833913
Toluene	108-88-3	92.10	2.00	7.53	221	832		4	WG1833913
1,2,4-Trichlorobenzene	120-82-1	181	2.52	18.7	ND	ND		4	WG1833913



Collected date/time: 03/14/22 11:26

L1471407

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.800	4.35	ND	ND		4	WG1833913
1,1,2-Trichloroethane	79-00-5	133	0.800	4.35	ND	ND		4	WG1833913
Trichloroethylene	79-01-6	131	0.800	4.29	ND	ND		4	WG1833913
1,2,4-Trimethylbenzene	95-63-6	120	0.800	3.93	109	535		4	WG1833913
1,3,5-Trimethylbenzene	108-67-8	120	0.800	3.93	48.2	237		4	WG1833913
2,2,4-Trimethylpentane	540-84-1	114.22	0.800	3.74	ND	ND		4	WG1833913
Vinyl chloride	75-01-4	62.50	0.800	2.04	ND	ND		4	WG1833913
Vinyl Bromide	593-60-2	106.95	0.800	3.50	ND	ND		4	WG1833913
Vinyl acetate	108-05-4	86.10	0.800	2.82	ND	ND		4	WG1833913
m&p-Xylene	1330-20-7	106	1.60	6.94	404	1750		4	WG1833913
o-Xylene	95-47-6	106	0.800	3.47	188	815		4	WG1833913
TPH (GC/MS) Low Fraction	8006-61-9	101	800	3300	9470	39100		4	WG1833913
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		119				WG1833913

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3770894-3 03/17/22 09:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.309	U	0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1471407-01,02,03,04

Method Blank (MB)

(MB) R3770894-3 03/17/22 09:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	52.5	U	39.7	200
(S) 1,4-Bromofluorobenzene	95.4			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770894-1 03/17/22 08:37 • (LCSD) R3770894-2 03/17/22 09:07

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.54	3.17	94.4	84.5	70.0-130			11.0	25
Allyl Chloride	3.75	3.66	3.61	97.6	96.3	70.0-130			1.38	25
Benzene	3.75	3.78	3.79	101	101	70.0-130			0.264	25
Benzyl Chloride	3.75	3.80	3.67	101	97.9	70.0-152			3.48	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770894-1 03/17/22 08:37 • (LCSD) R3770894-2 03/17/22 09:07

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Bromoform	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Bromomethane	3.75	3.78	3.78	101	101	70.0-130			0.000	25
1,3-Butadiene	3.75	2.96	2.82	78.9	75.2	70.0-130			4.84	25
Carbon disulfide	3.75	3.85	3.81	103	102	70.0-130			1.04	25
Carbon tetrachloride	3.75	3.86	3.90	103	104	70.0-130			1.03	25
Chlorobenzene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
Chloroethane	3.75	3.60	3.64	96.0	97.1	70.0-130			1.10	25
Chloroform	3.75	3.89	3.85	104	103	70.0-130			1.03	25
Chloromethane	3.75	3.45	3.48	92.0	92.8	70.0-130			0.866	25
2-Chlorotoluene	3.75	3.97	3.88	106	103	70.0-130			2.29	25
Cyclohexane	3.75	3.77	3.77	101	101	70.0-130			0.000	25
Dibromochloromethane	3.75	4.06	4.06	108	108	70.0-130			0.000	25
1,2-Dibromoethane	3.75	4.08	4.10	109	109	70.0-130			0.489	25
1,2-Dichlorobenzene	3.75	4.08	4.08	109	109	70.0-130			0.000	25
1,3-Dichlorobenzene	3.75	4.16	4.09	111	109	70.0-130			1.70	25
1,4-Dichlorobenzene	3.75	4.16	4.15	111	111	70.0-130			0.241	25
1,2-Dichloroethane	3.75	3.80	3.80	101	101	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.70	3.66	98.7	97.6	70.0-130			1.09	25
1,1-Dichloroethene	3.75	3.80	3.76	101	100	70.0-130			1.06	25
cis-1,2-Dichloroethene	3.75	3.75	3.69	100	98.4	70.0-130			1.61	25
trans-1,2-Dichloroethene	3.75	3.92	3.92	105	105	70.0-130			0.000	25
1,2-Dichloropropane	3.75	3.65	3.66	97.3	97.6	70.0-130			0.274	25
cis-1,3-Dichloropropene	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
trans-1,3-Dichloropropene	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
1,4-Dioxane	3.75	3.81	3.86	102	103	70.0-140			1.30	25
Ethanol	3.75	3.41	3.30	90.9	88.0	55.0-148			3.28	25
Ethylbenzene	3.75	3.92	3.91	105	104	70.0-130			0.255	25
4-Ethyltoluene	3.75	4.11	4.05	110	108	70.0-130			1.47	25
Trichlorofluoromethane	3.75	3.85	3.86	103	103	70.0-130			0.259	25
Dichlorodifluoromethane	3.75	3.78	3.81	101	102	64.0-139			0.791	25
1,1,2-Trichlorotrifluoroethane	3.75	4.02	4.06	107	108	70.0-130			0.990	25
1,2-Dichlorotetrafluoroethane	3.75	3.83	3.84	102	102	70.0-130			0.261	25
Heptane	3.75	3.57	3.54	95.2	94.4	70.0-130			0.844	25
Hexachloro-1,3-butadiene	3.75	4.20	4.19	112	112	70.0-151			0.238	25
n-Hexane	3.75	3.65	3.60	97.3	96.0	70.0-130			1.38	25
Isopropylbenzene	3.75	4.03	4.01	107	107	70.0-130			0.498	25
Methylene Chloride	3.75	3.69	3.70	98.4	98.7	70.0-130			0.271	25
Methyl Butyl Ketone	3.75	3.77	3.75	101	100	70.0-149			0.532	25
Methyl Ethyl Ketone	3.75	3.71	3.72	98.9	99.2	70.0-130			0.269	25

¹Cp

²Tc

³Ss

⁴Cn

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⁹Al

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770894-1 03/17/22 08:37 • (LCSD) R3770894-2 03/17/22 09:07

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.70	3.70	98.7	98.7	70.0-139			0.000	25
Methyl Methacrylate	3.75	3.75	3.75	100	100	70.0-130			0.000	25
MTBE	3.75	3.72	3.73	99.2	99.5	70.0-130			0.268	25
Naphthalene	3.75	4.42	4.38	118	117	70.0-159			0.909	25
2-Propanol	3.75	3.38	3.42	90.1	91.2	70.0-139			1.18	25
Propene	3.75	3.56	3.57	94.9	95.2	64.0-144			0.281	25
Styrene	3.75	4.02	3.98	107	106	70.0-130			1.00	25
1,1,2,2-Tetrachloroethane	3.75	3.96	3.97	106	106	70.0-130			0.252	25
Tetrachloroethylene	3.75	4.07	4.13	109	110	70.0-130			1.46	25
Tetrahydrofuran	3.75	3.56	3.50	94.9	93.3	70.0-137			1.70	25
Toluene	3.75	3.93	3.92	105	105	70.0-130			0.255	25
1,2,4-Trichlorobenzene	3.75	4.14	4.17	110	111	70.0-160			0.722	25
1,1,1-Trichloroethane	3.75	3.82	3.83	102	102	70.0-130			0.261	25
1,1,2-Trichloroethane	3.75	3.92	3.94	105	105	70.0-130			0.509	25
Trichloroethylene	3.75	3.85	3.87	103	103	70.0-130			0.518	25
1,2,4-Trimethylbenzene	3.75	4.11	4.08	110	109	70.0-130			0.733	25
1,3,5-Trimethylbenzene	3.75	4.07	4.01	109	107	70.0-130			1.49	25
2,2,4-Trimethylpentane	3.75	3.64	3.62	97.1	96.5	70.0-130			0.551	25
Vinyl chloride	3.75	3.65	3.63	97.3	96.8	70.0-130			0.549	25
Vinyl Bromide	3.75	3.83	3.81	102	102	70.0-130			0.524	25
Vinyl acetate	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
m&p-Xylene	7.50	8.15	8.04	109	107	70.0-130			1.36	25
o-Xylene	3.75	3.99	3.95	106	105	70.0-130			1.01	25
TPH (GC/MS) Low Fraction	203	221	218	109	107	70.0-130			1.37	25
(S) 1,4-Bromofluorobenzene				98.8	97.5	60.0-140				

¹Cp

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Volatile Organic Compounds (MS) by Method TO-15 [L1471407-01,02,03](#)

Method Blank (MB)

(MB) R3771481-3 03/18/22 11:16

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	89.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3771481-1 03/18/22 09:50 • (LCSD) R3771481-2 03/18/22 10:34

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.22	4.39	113	117	70.0-130			3.95	25
n-Hexane	3.75	3.87	4.06	103	108	70.0-130			4.79	25
(S) 1,4-Bromofluorobenzene				92.2	93.6	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

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10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

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ANALYTICAL REPORT

March 21, 2022

Ensolum, LLC

Sample Delivery Group: L1472293
Samples Received: 03/17/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

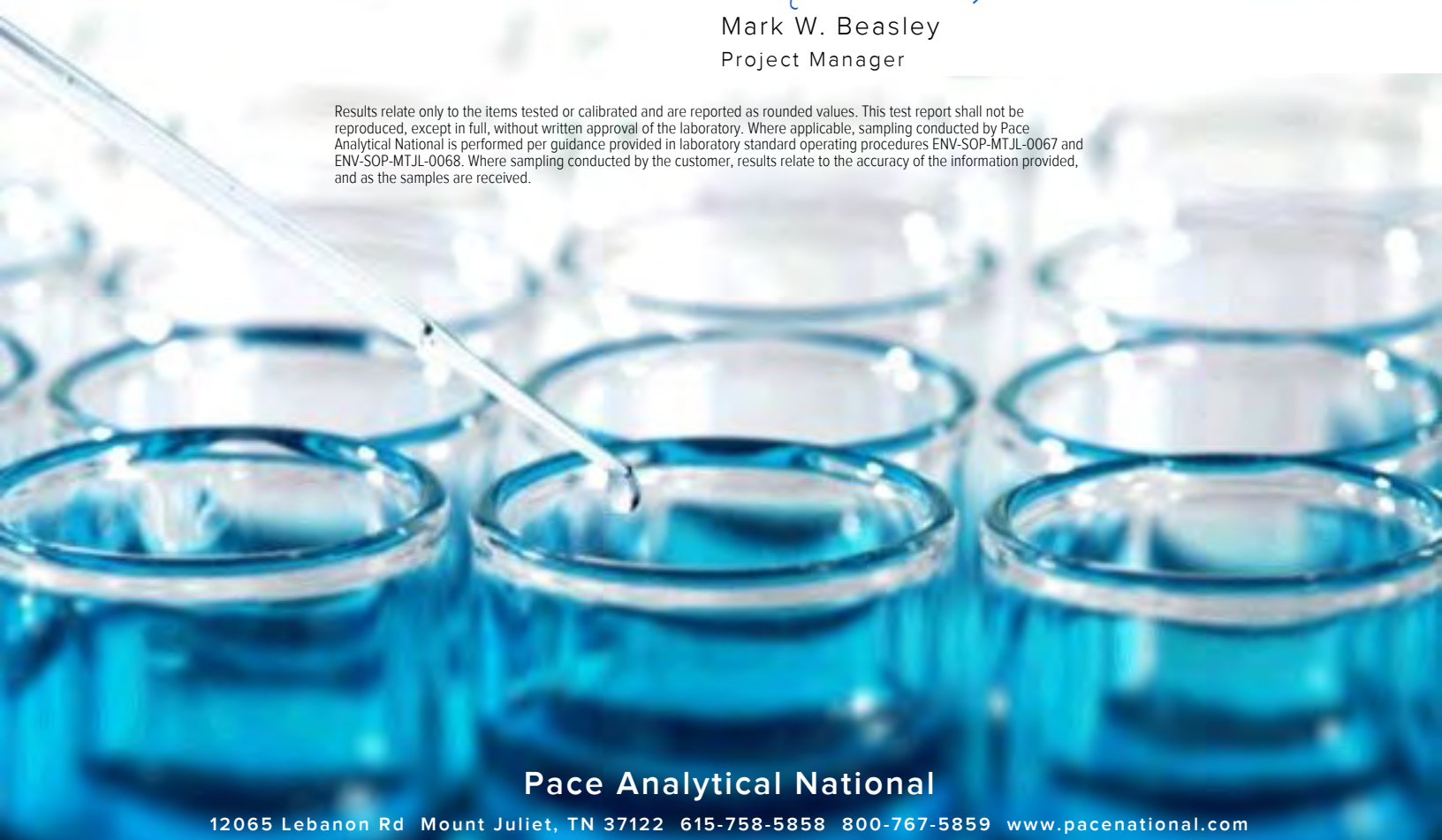


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1472293-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1472293-01 Air

Collected by Aaron Marquez
Collected date/time 03/16/22 11:13
Received date/time 03/17/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1835113	20	03/19/22 23:55	03/19/22 23:55	FKG	Mt. Juliet, TN

¹Cp

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 03/21/2022 16:43					
Project Name: Levey Well		Laboratory Job Number: L1472293-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1835113					
#1	A2	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/21/2022 16:43				
Project Name: Levey Well			Laboratory Job Number: L1472293-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1835113				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/21/2022 16:43	
Project Name: Levey Well		Laboratory Job Number: L1472293-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1835113	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/16/22 11:13

L1472293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	57.6	137		20	WG1835113
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1835113
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1835113
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1835113
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1835113
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1835113
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1835113
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1835113
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1835113
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1835113
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1835113
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1835113
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1835113
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1835113
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1835113
Cyclohexane	110-82-7	84.20	4.00	13.8	186	641		20	WG1835113
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1835113
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1835113
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1835113
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1835113
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1835113
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1835113
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1835113
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1835113
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1835113
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1835113
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1835113
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1835113
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1835113
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1835113
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1835113
Ethylbenzene	100-41-4	106	4.00	17.3	11.6	50.3		20	WG1835113
4-Ethyltoluene	622-96-8	120	4.00	19.6	8.45	41.5		20	WG1835113
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1835113
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1835113
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1835113
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1835113
Heptane	142-82-5	100	4.00	16.4	99.3	406		20	WG1835113
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1835113
n-Hexane	110-54-3	86.20	12.6	44.4	925	3260		20	WG1835113
Isopropylbenzene	98-82-8	120.20	4.00	19.7	7.04	34.6		20	WG1835113
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1835113
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1835113
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1835113
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1835113
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1835113
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1835113
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1835113
2-Propanol	67-63-0	60.10	25.0	61.5	33.2	81.6		20	WG1835113
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1835113
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1835113
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1835113
Tetrachloroethylene	127-18-4	166	4.00	27.2	8.40	57.0		20	WG1835113
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1835113
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1835113
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1835113



Collected date/time: 03/16/22 11:13 L1472293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1835113
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1835113
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1835113
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	29.9	147		20	WG1835113
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	12.4	60.9		20	WG1835113
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1835113
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1835113
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1835113
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1835113
m&p-Xylene	1330-20-7	106	8.00	34.7	24.4	106		20	WG1835113
o-Xylene	95-47-6	106	4.00	17.3	13.3	57.7		20	WG1835113
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	5740	23700		20	WG1835113
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.6				WG1835113

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3771982-2 03/19/22 10:45

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3771982-2 03/19/22 10:45

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.229	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	97.7			60.0-140

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

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Qc

8

Gl

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Al

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Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3771982-1 03/19/22 10:04 • (LCSD) R3771982-3 03/19/22 12:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.73	3.68	99.5	98.1	70.0-130			1.35	25
Allyl Chloride	3.75	4.11	4.20	110	112	70.0-130			2.17	25
Benzene	3.75	4.03	4.04	107	108	70.0-130			0.248	25
Benzyl Chloride	3.75	3.80	3.81	101	102	70.0-152			0.263	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3771982-1 03/19/22 10:04 • (LCSD) R3771982-3 03/19/22 12:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.87	3.89	103	104	70.0-130			0.515	25
Bromoform	3.75	3.68	3.68	98.1	98.1	70.0-130			0.000	25
Bromomethane	3.75	4.01	3.83	107	102	70.0-130			4.59	25
1,3-Butadiene	3.75	4.05	3.94	108	105	70.0-130			2.75	25
Carbon disulfide	3.75	3.90	3.93	104	105	70.0-130			0.766	25
Carbon tetrachloride	3.75	3.82	3.91	102	104	70.0-130			2.33	25
Chlorobenzene	3.75	3.87	3.81	103	102	70.0-130			1.56	25
Chloroethane	3.75	3.98	3.91	106	104	70.0-130			1.77	25
Chloroform	3.75	4.07	4.00	109	107	70.0-130			1.73	25
Chloromethane	3.75	4.17	4.15	111	111	70.0-130			0.481	25
2-Chlorotoluene	3.75	3.77	3.85	101	103	70.0-130			2.10	25
Cyclohexane	3.75	4.00	4.00	107	107	70.0-130			0.000	25
Dibromochloromethane	3.75	3.73	3.85	99.5	103	70.0-130			3.17	25
1,2-Dibromoethane	3.75	3.95	4.00	105	107	70.0-130			1.26	25
1,2-Dichlorobenzene	3.75	3.58	3.65	95.5	97.3	70.0-130			1.94	25
1,3-Dichlorobenzene	3.75	3.73	3.74	99.5	99.7	70.0-130			0.268	25
1,4-Dichlorobenzene	3.75	3.67	3.68	97.9	98.1	70.0-130			0.272	25
1,2-Dichloroethane	3.75	3.96	4.01	106	107	70.0-130			1.25	25
1,1-Dichloroethane	3.75	4.08	4.08	109	109	70.0-130			0.000	25
1,1-Dichloroethene	3.75	4.16	4.07	111	109	70.0-130			2.19	25
cis-1,2-Dichloroethene	3.75	3.99	4.15	106	111	70.0-130			3.93	25
trans-1,2-Dichloroethene	3.75	4.13	4.18	110	111	70.0-130			1.20	25
1,2-Dichloropropane	3.75	4.06	3.95	108	105	70.0-130			2.75	25
cis-1,3-Dichloropropene	3.75	3.97	3.84	106	102	70.0-130			3.33	25
trans-1,3-Dichloropropene	3.75	3.95	3.90	105	104	70.0-130			1.27	25
1,4-Dioxane	3.75	4.07	4.00	109	107	70.0-140			1.73	25
Ethanol	3.75	4.01	4.03	107	107	55.0-148			0.498	25
Ethylbenzene	3.75	3.96	3.91	106	104	70.0-130			1.27	25
4-Ethyltoluene	3.75	3.85	3.83	103	102	70.0-130			0.521	25
Trichlorofluoromethane	3.75	4.04	4.01	108	107	70.0-130			0.745	25
Dichlorodifluoromethane	3.75	3.63	3.54	96.8	94.4	64.0-139			2.51	25
1,1,2-Trichlorotrifluoroethane	3.75	3.95	4.05	105	108	70.0-130			2.50	25
1,2-Dichlorotetrafluoroethane	3.75	4.36	4.23	116	113	70.0-130			3.03	25
Heptane	3.75	3.99	4.03	106	107	70.0-130			0.998	25
Hexachloro-1,3-butadiene	3.75	3.78	3.78	101	101	70.0-151			0.000	25
n-Hexane	3.75	4.16	4.15	111	111	70.0-130			0.241	25
Isopropylbenzene	3.75	3.90	3.90	104	104	70.0-130			0.000	25
Methylene Chloride	3.75	3.99	4.06	106	108	70.0-130			1.74	25
Methyl Butyl Ketone	3.75	4.18	4.29	111	114	70.0-149			2.60	25
Methyl Ethyl Ketone	3.75	4.06	4.03	108	107	70.0-130			0.742	25

¹Cp

²Tc

³Ss

⁴Cn

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⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3771982-1 03/19/22 10:04 • (LCSD) R3771982-3 03/19/22 12:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.15	4.26	111	114	70.0-139			2.62	25
Methyl Methacrylate	3.75	3.89	4.03	104	107	70.0-130			3.54	25
MTBE	3.75	4.04	4.04	108	108	70.0-130			0.000	25
Naphthalene	3.75	3.99	3.96	106	106	70.0-159			0.755	25
2-Propanol	3.75	4.27	4.22	114	113	70.0-139			1.18	25
Propene	3.75	4.28	4.30	114	115	64.0-144			0.466	25
Styrene	3.75	3.78	3.87	101	103	70.0-130			2.35	25
1,1,2,2-Tetrachloroethane	3.75	3.89	3.91	104	104	70.0-130			0.513	25
Tetrachloroethylene	3.75	3.84	3.84	102	102	70.0-130			0.000	25
Tetrahydrofuran	3.75	4.22	4.21	113	112	70.0-137			0.237	25
Toluene	3.75	3.92	3.95	105	105	70.0-130			0.762	25
1,2,4-Trichlorobenzene	3.75	3.82	3.77	102	101	70.0-160			1.32	25
1,1,1-Trichloroethane	3.75	3.85	3.98	103	106	70.0-130			3.32	25
1,1,2-Trichloroethane	3.75	3.89	3.94	104	105	70.0-130			1.28	25
Trichloroethylene	3.75	3.98	3.95	106	105	70.0-130			0.757	25
1,2,4-Trimethylbenzene	3.75	3.91	3.89	104	104	70.0-130			0.513	25
1,3,5-Trimethylbenzene	3.75	4.04	3.94	108	105	70.0-130			2.51	25
2,2,4-Trimethylpentane	3.75	4.12	4.12	110	110	70.0-130			0.000	25
Vinyl chloride	3.75	4.07	4.16	109	111	70.0-130			2.19	25
Vinyl Bromide	3.75	4.01	4.06	107	108	70.0-130			1.24	25
Vinyl acetate	3.75	4.07	4.00	109	107	70.0-130			1.73	25
m&p-Xylene	7.50	7.88	7.91	105	105	70.0-130			0.380	25
o-Xylene	3.75	3.92	3.91	105	104	70.0-130			0.255	25
TPH (GC/MS) Low Fraction	203	225	226	111	111	70.0-130			0.443	25
(S) 1,4-Bromofluorobenzene				100	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

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⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

J	The identification of the analyte is acceptable; the reported value is an estimate.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

Report to:

Beaux Jennings

Project Description:

Levey Well

Phone: 210-219-8858

Collected by (print):

Aaron Marquez

Collected by (signature):

Immediately

Packed on Ice N ☐ Y ☐

Billing Information:

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220Pres
Chk

Email To: bjennings@ensolum.com

City/State

Collected: Hobbs, NM

Please Circle:

PT MT CT ET

Client Project #

03B1417001

Lab Project #

ENSOLUMMTX-SUMMA

Site/Facility ID #

03B1417001

P.O. #

03B1417001

Quote #

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☒ Three Day

Date Results Needed

No.
of
Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Levey Well

G

Air

3-16-22 1113

1

X

NFE AAM 3-16-22

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

5349 7821 1625

Relinquished by: (Signature)

Date:

3-16-22

Time:

15:30

Received by: (Signature)

Trip Blank Received: Yes / ☒ NoHCL / MeOH
TBR

Relinquished by: (Signature)

Date:

3-16-22

Time:

17:00

Received by: (Signature)

Temp: °C Bottles Received:

Amb.

1

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Released to Imaging: 3/20/2024 4:25:49 PM

Date:

3-17-22

Time:

1000

Received for lab by: (Signature)

Date:

3-17-22

Time:

1000

Hold:

Condition:

NCF / ☒ OK

Analysis / Container / Preservative

Chain of Custody Page 368 of 434

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG #

U472293

D194

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

- 01



ANALYTICAL REPORT

March 29, 2022

Ensolum, LLC

Sample Delivery Group: L1475245
Samples Received: 03/25/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1475245-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1475245-01 Air

Collected by Aaron Marquez
Collected date/time 03/24/22 13:35
Received date/time 03/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1838806	1	03/27/22 00:56	03/27/22 00:56	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1839631	50	03/29/22 08:47	03/29/22 08:47	MBF	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 03/29/2022 15:30				
Project Name: Levey Well			Laboratory Job Number: L1475245-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1838806 and WG1839631				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 03/29/2022 15:30				
Project Name: Levey Well			Laboratory Job Number: L1475245-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1838806 and WG1839631				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 03/29/2022 15:30	
Project Name: Levey Well		Laboratory Job Number: L1475245-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1838806 and WG1839631	
ER #¹	Description		
1	TO-15 WG1838806 Allyl Chloride, Carbon disulfide: Percent Recovery is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/24/22 13:35

L1475245

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG1838806
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND	J4	1	WG1838806
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1838806
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1838806
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1838806
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1838806
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1838806
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1838806
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND	J4	1	WG1838806
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1838806
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1838806
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1838806
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1838806
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1838806
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1838806
Cyclohexane	110-82-7	84.20	10.0	34.4	246	847		50	WG1839631
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1838806
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1838806
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1838806
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1838806
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1838806
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1838806
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1838806
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1838806
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1838806
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1838806
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1838806
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1838806
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1838806
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1838806
Ethanol	64-17-5	46.10	1.25	2.36	ND	ND		1	WG1838806
Ethylbenzene	100-41-4	106	0.200	0.867	1.99	8.63		1	WG1838806
4-Ethyltoluene	622-96-8	120	0.200	0.982	13.5	66.3		1	WG1838806
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1838806
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1838806
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1838806
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1838806
Heptane	142-82-5	100	10.0	40.9	93.5	382		50	WG1839631
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1838806
n-Hexane	110-54-3	86.20	31.5	111	1990	7020		50	WG1839631
Isopropylbenzene	98-82-8	120.20	0.200	0.983	2.83	13.9		1	WG1838806
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1838806
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1838806
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1838806
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1838806
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1838806
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1838806
Naphthalene	91-20-3	128	0.630	3.30	1.78	9.32		1	WG1838806
2-Propanol	67-63-0	60.10	1.25	3.07	55.0	135		1	WG1838806
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1838806
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1838806
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1838806
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1838806
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1838806
Toluene	108-88-3	92.10	0.500	1.88	3.78	14.2		1	WG1838806
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1838806

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/24/22 13:35

L1475245

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1838806
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1838806
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1838806
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	14.6	71.7		1	WG1838806
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	7.27	35.7		1	WG1838806
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1838806
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1838806
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1838806
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1838806
m&p-Xylene	1330-20-7	106	0.400	1.73	6.07	26.3		1	WG1838806
o-Xylene	95-47-6	106	0.200	0.867	3.10	13.4		1	WG1838806
TPH (GC/MS) Low Fraction	8006-61-9	101	10000	41300	12400	51200		50	WG1839631
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		111				WG1838806
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1839631

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3774450-3 03/26/22 08:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1475245-01

Method Blank (MB)

(MB) R3774450-3 03/26/22 08:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.291	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	96.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3774450-1 03/26/22 07:12 • (LCSD) R3774450-2 03/26/22 07:54

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.27	4.11	114	110	70.0-130			3.82	25
Allyl Chloride	3.75	5.21	4.13	139	110	70.0-130	J4		23.1	25
Benzene	3.75	4.50	4.52	120	121	70.0-130			0.443	25
Benzyl Chloride	3.75	4.08	4.05	109	108	70.0-152			0.738	25
Bromodichloromethane	3.75	4.34	4.27	116	114	70.0-130			1.63	25
Bromoform	3.75	3.90	3.93	104	105	70.0-130			0.766	25
Bromomethane	3.75	4.31	4.29	115	114	70.0-130			0.465	25
1,3-Butadiene	3.75	4.49	4.42	120	118	70.0-130			1.57	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3774450-1 03/26/22 07:12 • (LCSD) R3774450-2 03/26/22 07:54

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	3.75	4.90	4.86	131	130	70.0-130	J4		0.820	25
Carbon tetrachloride	3.75	4.13	4.15	110	111	70.0-130			0.483	25
Chlorobenzene	3.75	4.18	4.13	111	110	70.0-130			1.20	25
Chloroethane	3.75	4.35	4.31	116	115	70.0-130			0.924	25
Chloroform	3.75	4.47	4.40	119	117	70.0-130			1.58	25
Chloromethane	3.75	4.75	4.74	127	126	70.0-130			0.211	25
2-Chlorotoluene	3.75	4.16	4.21	111	112	70.0-130			1.19	25
Dibromochloromethane	3.75	4.07	4.04	109	108	70.0-130			0.740	25
1,2-Dibromoethane	3.75	4.28	4.35	114	116	70.0-130			1.62	25
1,2-Dichlorobenzene	3.75	3.80	3.88	101	103	70.0-130			2.08	25
1,3-Dichlorobenzene	3.75	3.97	4.02	106	107	70.0-130			1.25	25
1,4-Dichlorobenzene	3.75	3.92	3.99	105	106	70.0-130			1.77	25
1,2-Dichloroethane	3.75	4.26	4.40	114	117	70.0-130			3.23	25
1,1-Dichloroethane	3.75	4.49	4.63	120	123	70.0-130			3.07	25
1,1-Dichloroethene	3.75	4.39	4.36	117	116	70.0-130			0.686	25
cis-1,2-Dichloroethene	3.75	4.47	4.52	119	121	70.0-130			1.11	25
trans-1,2-Dichloroethene	3.75	4.67	4.57	125	122	70.0-130			2.16	25
1,2-Dichloropropane	3.75	4.54	4.56	121	122	70.0-130			0.440	25
cis-1,3-Dichloropropene	3.75	4.46	4.43	119	118	70.0-130			0.675	25
trans-1,3-Dichloropropene	3.75	4.30	4.35	115	116	70.0-130			1.16	25
1,4-Dioxane	3.75	4.38	4.41	117	118	70.0-140			0.683	25
Ethanol	3.75	4.54	4.42	121	118	55.0-148			2.68	25
Ethylbenzene	3.75	4.31	4.28	115	114	70.0-130			0.698	25
4-Ethyltoluene	3.75	4.08	4.22	109	113	70.0-130			3.37	25
Trichlorofluoromethane	3.75	4.22	4.11	113	110	70.0-130			2.64	25
Dichlorodifluoromethane	3.75	3.37	3.31	89.9	88.3	64.0-139			1.80	25
1,1,2-Trichlorotrifluoroethane	3.75	4.31	4.31	115	115	70.0-130			0.000	25
1,2-Dichlorotetrafluoroethane	3.75	4.61	4.62	123	123	70.0-130			0.217	25
Hexachloro-1,3-butadiene	3.75	4.01	4.05	107	108	70.0-151			0.993	25
Isopropylbenzene	3.75	4.18	4.27	111	114	70.0-130			2.13	25
Methylene Chloride	3.75	4.66	4.63	124	123	70.0-130			0.646	25
Methyl Butyl Ketone	3.75	5.00	4.74	133	126	70.0-149			5.34	25
Methyl Ethyl Ketone	3.75	4.54	4.39	121	117	70.0-130			3.36	25
4-Methyl-2-pentanone (MIBK)	3.75	4.80	4.93	128	131	70.0-139			2.67	25
Methyl Methacrylate	3.75	4.41	4.48	118	119	70.0-130			1.57	25
MTBE	3.75	4.54	4.46	121	119	70.0-130			1.78	25
Naphthalene	3.75	4.32	4.38	115	117	70.0-159			1.38	25
2-Propanol	3.75	4.81	4.76	128	127	70.0-139			1.04	25
Propene	3.75	4.81	4.70	128	125	64.0-144			2.31	25
Styrene	3.75	4.23	4.31	113	115	70.0-130			1.87	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3774450-1 03/26/22 07:12 • (LCSD) R3774450-2 03/26/22 07:54

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	3.75	4.35	4.46	116	119	70.0-130			2.50	25
Tetrachloroethylene	3.75	4.19	4.20	112	112	70.0-130			0.238	25
Tetrahydrofuran	3.75	4.94	4.89	132	130	70.0-137			1.02	25
Toluene	3.75	4.40	4.40	117	117	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.93	3.98	105	106	70.0-160			1.26	25
1,1,1-Trichloroethane	3.75	4.26	4.24	114	113	70.0-130			0.471	25
1,1,2-Trichloroethane	3.75	4.44	4.32	118	115	70.0-130			2.74	25
Trichloroethylene	3.75	4.41	4.37	118	117	70.0-130			0.911	25
1,2,4-Trimethylbenzene	3.75	4.15	4.20	111	112	70.0-130			1.20	25
1,3,5-Trimethylbenzene	3.75	4.20	4.31	112	115	70.0-130			2.59	25
2,2,4-Trimethylpentane	3.75	4.75	4.70	127	125	70.0-130			1.06	25
Vinyl chloride	3.75	4.55	4.55	121	121	70.0-130			0.000	25
Vinyl Bromide	3.75	4.32	4.28	115	114	70.0-130			0.930	25
Vinyl acetate	3.75	4.65	4.50	124	120	70.0-130			3.28	25
m&p-Xylene	7.50	8.77	8.85	117	118	70.0-130			0.908	25
o-Xylene	3.75	4.28	4.38	114	117	70.0-130			2.31	25
(S) 1,4-Bromofluorobenzene				99.3	99.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3775009-3 03/29/22 01:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	97.8			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3775009-1 03/28/22 23:55 • (LCSD) R3775009-2 03/29/22 00:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	3.72	3.72	99.2	99.2	70.0-130			0.000	25
Heptane	3.75	3.39	3.38	90.4	90.1	70.0-130			0.295	25
n-Hexane	3.75	3.78	3.73	101	99.5	70.0-130			1.33	25
TPH (GC/MS) Low Fraction	203	216	218	106	107	70.0-130			0.922	25
(S) 1,4-Bromofluorobenzene				99.2	99.4	60.0-140				

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Ensolum, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

Billing Information:

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG #

D229

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

TO-15 Summa

Levey Well

G

Air

-

3-24-22

1335

1

X

NFEAAM 3-24-22

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking # 4510 1659 6398

Relinquished by: (Signature)

Date:

3-24-22

Time:

152

Received by: (Signature)

Cm R

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

3/24/22

Time:

1100

Received by: (Signature)

FedEx

Temp: °C
Bottles Received: 1

Relinquished by: (Signature)

Date:

3-25-22

Time:

900

Received for lab by: (Signature)

Dramsey TO

Date:

3-25-22

Hold:

900

Condition:
NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time



ANALYTICAL REPORT

April 04, 2022

Ensolum, LLC

Sample Delivery Group: L1477142
Samples Received: 03/31/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

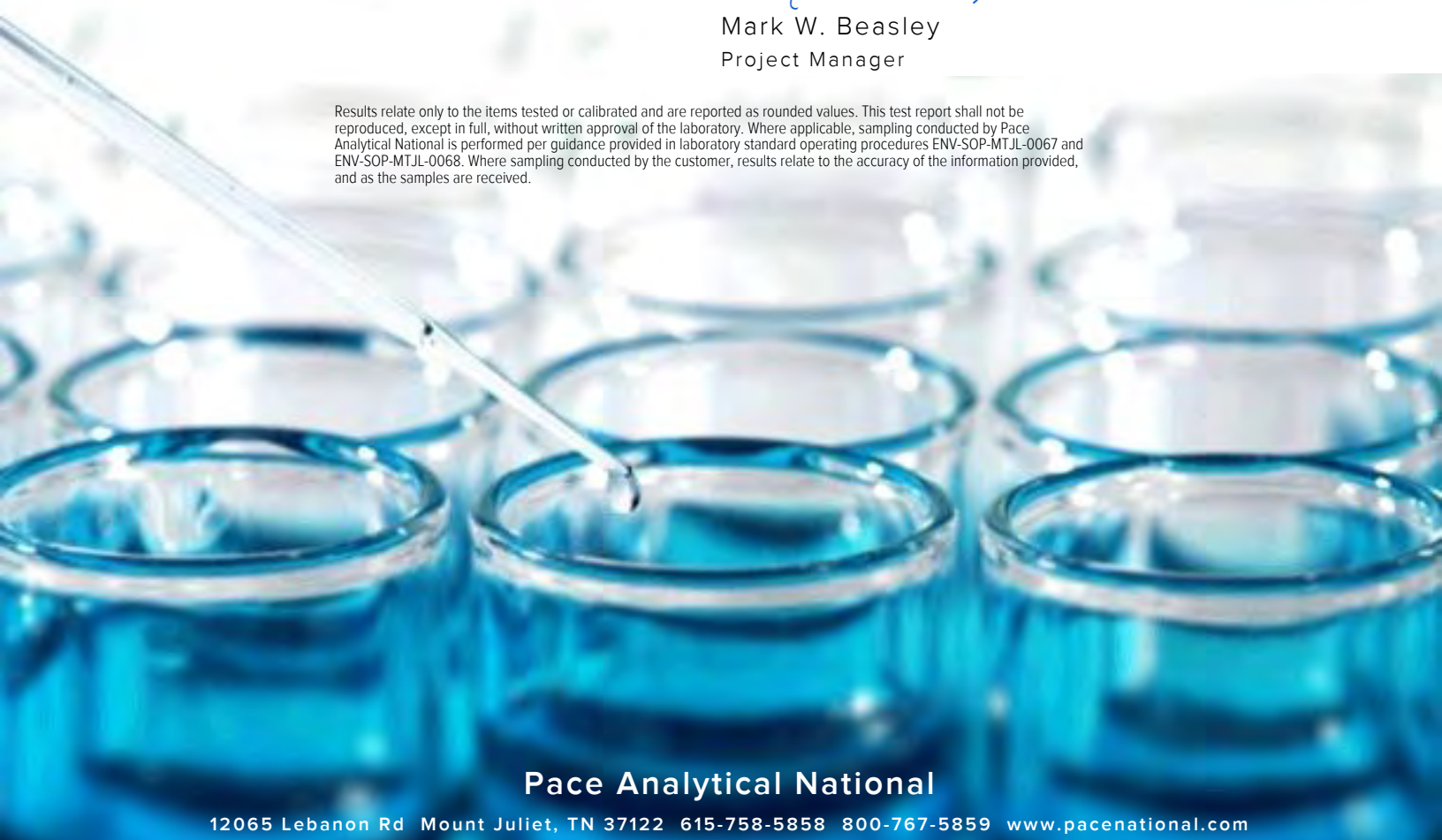


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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LEVEY WELL L1477142-01 Air

			Collected by Aaron Marquez	Collected date/time 03/30/22 09:07	Received date/time 03/31/22 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1841838	1	04/01/22 16:05	04/01/22 16:05	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1477142-02 Air

			Collected by Aaron Marquez	Collected date/time 03/30/22 10:21	Received date/time 03/31/22 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1841838	1	04/01/22 16:45	04/01/22 16:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1842236	20	04/02/22 14:53	04/02/22 14:53	MBF	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1477142-03 Air

			Collected by Aaron Marquez	Collected date/time 03/30/22 11:01	Received date/time 03/31/22 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1841838	1	04/01/22 17:25	04/01/22 17:25	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1842236	10	04/02/22 15:31	04/02/22 15:31	MBF	Mt. Juliet, TN

⁷Qc

⁸Gl

⁹Al

LEVEY WELL L1477142-04 Air

			Collected by Aaron Marquez	Collected date/time 03/30/22 12:17	Received date/time 03/31/22 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1841838	1	04/01/22 18:06	04/01/22 18:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1842236	50	04/03/22 00:11	04/03/22 00:11	MBF	Mt. Juliet, TN

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 04/04/2022 15:15				
Project Name: Levey Well			Laboratory Job Number: L1477142-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1841838 and WG1842236				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			1
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 04/04/2022 15:15				
Project Name: Levey Well			Laboratory Job Number: L1477142-01, 02, 03 and 04				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1841838 and WG1842236				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 04/04/2022 15:15	
Project Name: Levey Well		Laboratory Job Number: L1477142-01, 02, 03 and 04	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1841838 and WG1842236	
ER #¹	Description		
1	TO-15 WG1841838 L1477142-04: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/30/22 09:07

L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	20.0	47.5		1	WG1841838
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1841838
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1841838
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1841838
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1841838
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1841838
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1841838
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1841838
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1841838
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1841838
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1841838
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1841838
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1841838
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1841838
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1841838
Cyclohexane	110-82-7	84.20	0.200	0.689	41.4	143		1	WG1841838
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1841838
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1841838
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1841838
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1841838
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1841838
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1841838
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1841838
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1841838
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1841838
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1841838
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1841838
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1841838
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1841838
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1841838
Ethanol	64-17-5	46.10	1.25	2.36	23.3	43.9		1	WG1841838
Ethylbenzene	100-41-4	106	0.200	0.867	0.777	3.37		1	WG1841838
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1841838
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.225	1.26		1	WG1841838
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.494	2.44		1	WG1841838
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1841838
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1841838
Heptane	142-82-5	100	0.200	0.818	37.7	154		1	WG1841838
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1841838
n-Hexane	110-54-3	86.20	0.630	2.22	90.9	320		1	WG1841838
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1841838
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1841838
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1841838
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	4.88	14.4		1	WG1841838
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1841838
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1841838
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1841838
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1841838
2-Propanol	67-63-0	60.10	1.25	3.07	13.8	33.9		1	WG1841838
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1841838
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1841838
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1841838
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.546	3.71		1	WG1841838
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1841838
Toluene	108-88-3	92.10	0.500	1.88	13.8	52.0		1	WG1841838
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1841838

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/30/22 09:07

L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1841838
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1841838
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1841838
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.521	2.56		1	WG1841838
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.259	1.27		1	WG1841838
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1841838
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1841838
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1841838
Vinyl acetate	108-05-4	86.10	0.200	0.704	2.02	7.11		1	WG1841838
m&p-Xylene	1330-20-7	106	0.400	1.73	1.85	8.02		1	WG1841838
o-Xylene	95-47-6	106	0.200	0.867	0.915	3.97		1	WG1841838
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	979	4040		1	WG1841838
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.5				WG1841838

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 03/30/22 10:21

L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	37.4	88.9		1	WG1841838
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1841838
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1841838
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1841838
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1841838
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1841838
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1841838
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1841838
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1841838
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1841838
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1841838
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1841838
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1841838
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1841838
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1841838
Cyclohexane	110-82-7	84.20	4.00	13.8	194	668		20	WG1842236
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1841838
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1841838
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1841838
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1841838
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1841838
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1841838
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1841838
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1841838
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1841838
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1841838
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1841838
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1841838
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1841838
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1841838
Ethanol	64-17-5	46.10	1.25	2.36	3.14	5.92		1	WG1841838
Ethylbenzene	100-41-4	106	0.200	0.867	0.500	2.17		1	WG1841838
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1841838
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1841838
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1841838
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1841838
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1841838
Heptane	142-82-5	100	4.00	16.4	229	937		20	WG1842236
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1841838
n-Hexane	110-54-3	86.20	12.6	44.4	1180	4160		20	WG1842236
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.363	1.78		1	WG1841838
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1841838
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1841838
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	2.69	7.93		1	WG1841838
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1841838
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1841838
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1841838
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1841838
2-Propanol	67-63-0	60.10	1.25	3.07	8.02	19.7		1	WG1841838
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1841838
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1841838
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1841838
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1841838
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1841838
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1841838
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1841838

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1841838
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1841838
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1841838
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.71	13.3		1	WG1841838
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.79	8.79		1	WG1841838
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1841838
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1841838
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1841838
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1841838
m&p-Xylene	1330-20-7	106	0.400	1.73	1.23	5.33		1	WG1841838
o-Xylene	95-47-6	106	0.200	0.867	0.759	3.29		1	WG1841838
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	6690	27600		20	WG1842236
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.5				WG1841838
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		91.7				WG1842236

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

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L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	10.3	24.5		1	WG1841838
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1841838
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1841838
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1841838
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1841838
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1841838
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1841838
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1841838
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1841838
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1841838
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1841838
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1841838
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1841838
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1841838
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1841838
Cyclohexane	110-82-7	84.20	0.200	0.689	50.9	175		1	WG1841838
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1841838
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1841838
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1841838
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1841838
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1841838
1,2-Dichloroethane	107-06-2	99	0.200	0.810	0.289	1.17		1	WG1841838
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1841838
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1841838
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1841838
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1841838
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1841838
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1841838
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1841838
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1841838
Ethanol	64-17-5	46.10	1.25	2.36	6.53	12.3		1	WG1841838
Ethylbenzene	100-41-4	106	0.200	0.867	0.274	1.19		1	WG1841838
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1841838
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.219	1.23		1	WG1841838
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.483	2.39		1	WG1841838
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1841838
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1841838
Heptane	142-82-5	100	0.200	0.818	54.6	223		1	WG1841838
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1841838
n-Hexane	110-54-3	86.20	6.30	22.2	166	585		10	WG1842236
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1841838
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1841838
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1841838
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	2.62	7.73		1	WG1841838
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1841838
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1841838
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1841838
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1841838
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1841838
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1841838
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1841838
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1841838
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1841838
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1841838
Toluene	108-88-3	92.10	0.500	1.88	1.27	4.78		1	WG1841838
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1841838

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/30/22 11:01

L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1841838
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1841838
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1841838
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.02	5.01		1	WG1841838
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.698	3.43		1	WG1841838
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1841838
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1841838
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1841838
Vinyl acetate	108-05-4	86.10	0.200	0.704	2.47	8.70		1	WG1841838
m&p-Xylene	1330-20-7	106	0.400	1.73	0.662	2.87		1	WG1841838
o-Xylene	95-47-6	106	0.200	0.867	0.424	1.84		1	WG1841838
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	1510	6240		1	WG1841838
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.3				WG1841838
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		91.8				WG1842236

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Tr
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Collected date/time: 03/30/22 12:17

L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	225	535	E	1	WG1841838
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1841838
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1841838
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1841838
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1841838
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1841838
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1841838
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1841838
Carbon disulfide	75-15-0	76.10	0.200	0.622	9.28	28.9		1	WG1841838
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1841838
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1841838
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1841838
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1841838
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1841838
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1841838
Cyclohexane	110-82-7	84.20	10.0	34.4	633	2180		50	WG1842236
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1841838
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1841838
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1841838
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1841838
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1841838
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1841838
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1841838
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1841838
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1841838
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1841838
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1841838
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1841838
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1841838
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1841838
Ethanol	64-17-5	46.10	1.25	2.36	36.6	69.0		1	WG1841838
Ethylbenzene	100-41-4	106	0.200	0.867	1.85	8.02		1	WG1841838
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.72	8.44		1	WG1841838
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1841838
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.465	2.30		1	WG1841838
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1841838
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1841838
Heptane	142-82-5	100	10.0	40.9	484	1980		50	WG1842236
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1841838
n-Hexane	110-54-3	86.20	31.5	111	3510	12400		50	WG1842236
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1841838
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1841838
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1841838
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	51.6	152		1	WG1841838
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1841838
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1841838
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1841838
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1841838
2-Propanol	67-63-0	60.10	1.25	3.07	159	391	E	1	WG1841838
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1841838
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1841838
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1841838
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1841838
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1841838
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1841838
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1841838

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/30/22 12:17

L1477142

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1841838
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1841838
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1841838
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.40	11.8		1	WG1841838
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.94	9.52		1	WG1841838
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1841838
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1841838
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1841838
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1841838
m&p-Xylene	1330-20-7	106	0.400	1.73	3.05	13.2		1	WG1841838
o-Xylene	95-47-6	106	0.200	0.867	1.59	6.89		1	WG1841838
TPH (GC/MS) Low Fraction	8006-61-9	101	10000	41300	16400	67700		50	WG1842236
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.8				WG1841838
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.3				WG1842236

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3776725-3 04/01/22 10:09

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3776725-3 04/01/22 10:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.137	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	96.0			60.0-140

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3776725-1 04/01/22 08:50 • (LCSD) R3776725-2 04/01/22 09:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.12	4.14	110	110	70.0-130			0.484	25
Allyl Chloride	3.75	4.39	4.34	117	116	70.0-130			1.15	25
Benzene	3.75	4.05	4.15	108	111	70.0-130			2.44	25
Benzyl Chloride	3.75	4.13	4.21	110	112	70.0-152			1.92	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3776725-1 04/01/22 08:50 • (LCSD) R3776725-2 04/01/22 09:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.06	4.11	108	110	70.0-130			1.22	25
Bromoform	3.75	3.98	4.04	106	108	70.0-130			1.50	25
Bromomethane	3.75	4.16	4.25	111	113	70.0-130			2.14	25
1,3-Butadiene	3.75	4.16	4.23	111	113	70.0-130			1.67	25
Carbon disulfide	3.75	4.04	4.11	108	110	70.0-130			1.72	25
Carbon tetrachloride	3.75	3.65	3.71	97.3	98.9	70.0-130			1.63	25
Chlorobenzene	3.75	4.12	4.23	110	113	70.0-130			2.63	25
Chloroethane	3.75	4.22	4.37	113	117	70.0-130			3.49	25
Chloroform	3.75	3.98	4.02	106	107	70.0-130			1.00	25
Chloromethane	3.75	4.16	4.25	111	113	70.0-130			2.14	25
2-Chlorotoluene	3.75	4.07	4.12	109	110	70.0-130			1.22	25
Cyclohexane	3.75	3.90	3.94	104	105	70.0-130			1.02	25
Dibromochloromethane	3.75	4.05	4.13	108	110	70.0-130			1.96	25
1,2-Dibromoethane	3.75	4.04	4.08	108	109	70.0-130			0.985	25
1,2-Dichlorobenzene	3.75	4.17	4.26	111	114	70.0-130			2.14	25
1,3-Dichlorobenzene	3.75	4.16	4.26	111	114	70.0-130			2.38	25
1,4-Dichlorobenzene	3.75	4.21	4.30	112	115	70.0-130			2.12	25
1,2-Dichloroethane	3.75	4.12	4.12	110	110	70.0-130			0.000	25
1,1-Dichloroethane	3.75	4.06	4.10	108	109	70.0-130			0.980	25
1,1-Dichloroethene	3.75	4.02	4.09	107	109	70.0-130			1.73	25
cis-1,2-Dichloroethene	3.75	3.99	4.10	106	109	70.0-130			2.72	25
trans-1,2-Dichloroethene	3.75	4.02	4.13	107	110	70.0-130			2.70	25
1,2-Dichloropropane	3.75	4.21	4.30	112	115	70.0-130			2.12	25
cis-1,3-Dichloropropene	3.75	4.02	4.05	107	108	70.0-130			0.743	25
trans-1,3-Dichloropropene	3.75	3.99	4.05	106	108	70.0-130			1.49	25
1,4-Dioxane	3.75	4.06	4.13	108	110	70.0-140			1.71	25
Ethanol	3.75	4.24	4.32	113	115	55.0-148			1.87	25
Ethylbenzene	3.75	4.02	4.09	107	109	70.0-130			1.73	25
4-Ethyltoluene	3.75	4.00	4.09	107	109	70.0-130			2.22	25
Trichlorofluoromethane	3.75	4.03	4.07	107	109	70.0-130			0.988	25
Dichlorodifluoromethane	3.75	4.02	4.08	107	109	64.0-139			1.48	25
1,1,2-Trichlorotrifluoroethane	3.75	3.89	3.99	104	106	70.0-130			2.54	25
1,2-Dichlorotetrafluoroethane	3.75	4.06	4.14	108	110	70.0-130			1.95	25
Heptane	3.75	4.25	4.31	113	115	70.0-130			1.40	25
Hexachloro-1,3-butadiene	3.75	4.02	4.04	107	108	70.0-151			0.496	25
n-Hexane	3.75	4.05	4.13	108	110	70.0-130			1.96	25
Isopropylbenzene	3.75	3.99	4.08	106	109	70.0-130			2.23	25
Methylene Chloride	3.75	4.16	4.17	111	111	70.0-130			0.240	25
Methyl Butyl Ketone	3.75	4.37	4.42	117	118	70.0-149			1.14	25
Methyl Ethyl Ketone	3.75	4.07	4.10	109	109	70.0-130			0.734	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3776725-1 04/01/22 08:50 • (LCSD) R3776725-2 04/01/22 09:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.33	4.35	115	116	70.0-139			0.461	25
Methyl Methacrylate	3.75	4.11	4.13	110	110	70.0-130			0.485	25
MTBE	3.75	3.86	3.98	103	106	70.0-130			3.06	25
Naphthalene	3.75	4.14	4.24	110	113	70.0-159			2.39	25
2-Propanol	3.75	4.08	4.16	109	111	70.0-139			1.94	25
Propene	3.75	4.28	4.34	114	116	64.0-144			1.39	25
Styrene	3.75	3.99	4.03	106	107	70.0-130			0.998	25
1,1,2,2-Tetrachloroethane	3.75	4.20	4.25	112	113	70.0-130			1.18	25
Tetrachloroethylene	3.75	4.09	4.11	109	110	70.0-130			0.488	25
Tetrahydrofuran	3.75	4.13	4.24	110	113	70.0-137			2.63	25
Toluene	3.75	3.97	4.03	106	107	70.0-130			1.50	25
1,2,4-Trichlorobenzene	3.75	4.33	4.45	115	119	70.0-160			2.73	25
1,1,1-Trichloroethane	3.75	3.83	3.90	102	104	70.0-130			1.81	25
1,1,2-Trichloroethane	3.75	4.11	4.17	110	111	70.0-130			1.45	25
Trichloroethylene	3.75	4.00	4.09	107	109	70.0-130			2.22	25
1,2,4-Trimethylbenzene	3.75	3.96	4.05	106	108	70.0-130			2.25	25
1,3,5-Trimethylbenzene	3.75	4.03	4.07	107	109	70.0-130			0.988	25
2,2,4-Trimethylpentane	3.75	4.00	4.08	107	109	70.0-130			1.98	25
Vinyl chloride	3.75	4.21	4.31	112	115	70.0-130			2.35	25
Vinyl Bromide	3.75	4.14	4.21	110	112	70.0-130			1.68	25
Vinyl acetate	3.75	4.08	4.11	109	110	70.0-130			0.733	25
m&p-Xylene	7.50	7.71	7.88	103	105	70.0-130			2.18	25
o-Xylene	3.75	3.84	3.90	102	104	70.0-130			1.55	25
TPH (GC/MS) Low Fraction	203	222	227	109	112	70.0-130			2.23	25
(S) 1,4-Bromofluorobenzene				96.3	96.4	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1477142-02,03,04](#)

Method Blank (MB)

(MB) R3777168-3 04/02/22 07:38

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	91.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777168-1 04/02/22 06:15 • (LCSD) R3777168-2 04/02/22 06:57

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.46	4.37	119	117	70.0-130			2.04	25
Heptane	3.75	4.76	4.55	127	121	70.0-130			4.51	25
n-Hexane	3.75	4.62	4.53	123	121	70.0-130			1.97	25
TPH (GC/MS) Low Fraction	203	248	241	122	119	70.0-130			2.86	25
(S) 1,4-Bromofluorobenzene				94.9	94.7	60.0-140				

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



ENSOLUM, LLC

705 W. Wadley Ave, Ste 210
Midland, TX 79705

Billing Information:

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220

Pres
Chk

Report to:
Beaux Jennings

Email To: bjennings@ensolum.com

Project Description:

Levey Well

City/State

Collected: Hobbs, New Mexico

Please Circle:

RT MT DT ET

Phone: 210-219-8858

Client Project #

03B/M/17001

Lab Project #

ENSOLUMTX-SUMMA

Collected by (print):

Adam Marquez

Site/Facility ID #

03B/M/17001

P.O. #

03B1417001

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Immediately
Packed on Ice N Y

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

TO-15 Summa

Levey Well

G

Air

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3-30-22

0907

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X

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1021

1

X

Levey Well

G

Air

—

3-30-22

1217

1

X

NIFE AM 3-30-22

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

4510 1659 6387

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

[Signature]

Date:

3-30-22

Time:

81525

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

[Signature]

Date:

3/40/22

Time:

1700

Received by: (Signature)

FedEx

Temp: °C Bottles Received:

AMB 4

If preservation required by Login: Date/Time

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received for lab by: (Signature)

D. Ramsey

Date: Time:

3-31-22 900

Hold:

Condition: NCF / OK

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # LX77142
D081

Acctnum: ENSOLUMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks Sample # (lab only)

-01
-02
-03
-04



ANALYTICAL REPORT

April 06, 2022

Ensolum, LLC

Sample Delivery Group: L1477943
Samples Received: 04/02/2022
Project Number: 03131417001
Description: Levey Well
Site: 03131417001
Report To: Beaux Jennings
705 W. Wadley Ave, Ste 210
Midland, TX 79705

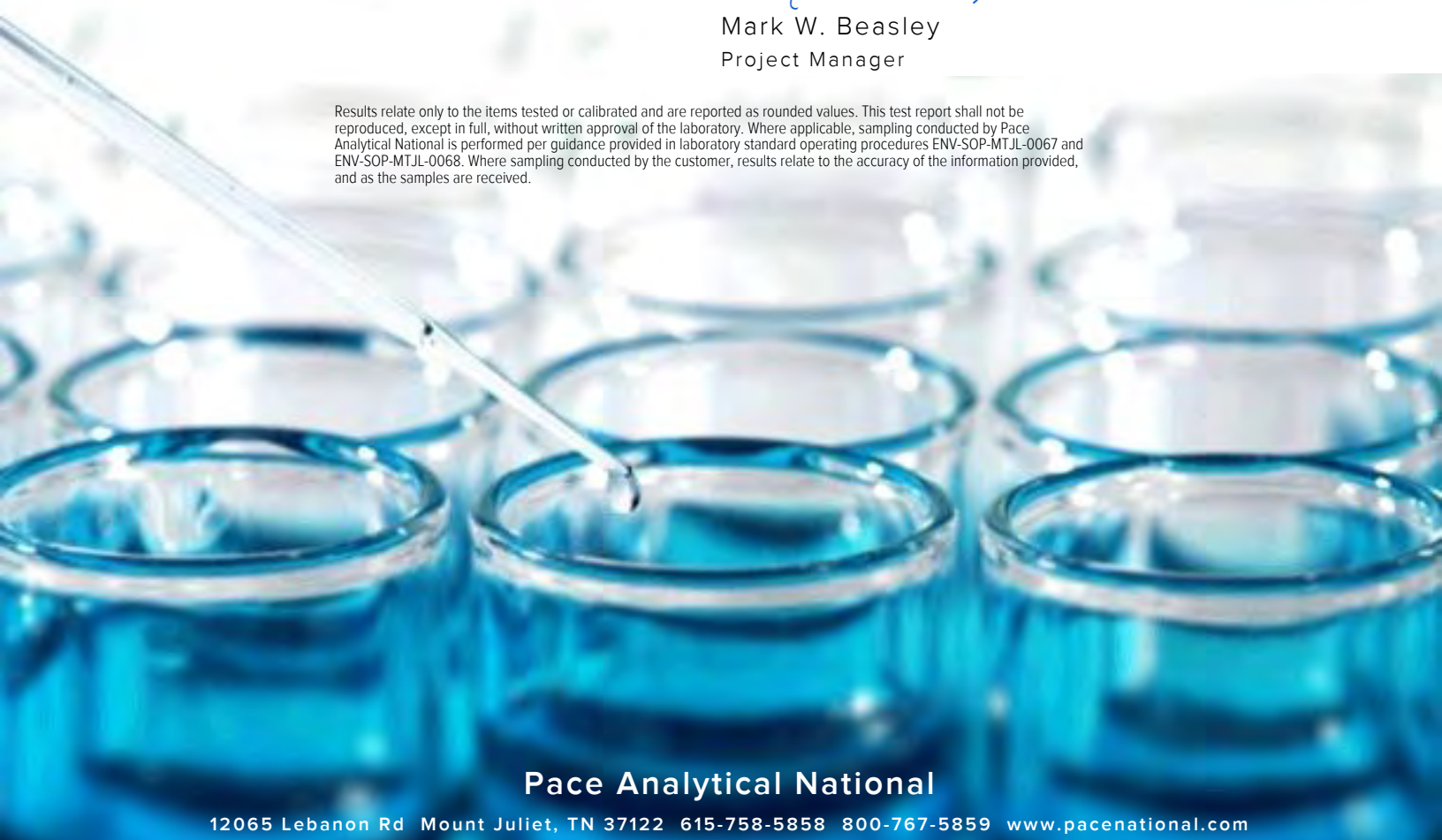


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1477943-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1477943-01 Air

Collected by Aaron Marquez
Collected date/time 03/31/22 12:41
Received date/time 04/02/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1842826	1	04/04/22 21:09	04/04/22 21:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1843294	20	04/06/22 01:01	04/06/22 01:01	CAW	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 04/06/2022 15:14					
Project Name: Levey Well		Laboratory Job Number: L1477943-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1842826 and WG1843294					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 04/06/2022 15:14				
Project Name: Levey Well			Laboratory Job Number: L1477943-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1842826 and WG1843294				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 04/06/2022 15:14	
Project Name: Levey Well		Laboratory Job Number: L1477943-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1842826 and WG1843294	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 03/31/22 12:41

L1477943

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	53.7	128		1	WG1842826
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1842826
Benzene	71-43-2	78.10	0.200	0.639	1.39	4.44		1	WG1842826
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1842826
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1842826
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1842826
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1842826
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1842826
Carbon disulfide	75-15-0	76.10	0.200	0.622	1.03	3.21		1	WG1842826
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1842826
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1842826
Chloroethane	75-00-3	64.50	0.200	0.528	0.288	0.760		1	WG1842826
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1842826
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1842826
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1842826
Cyclohexane	110-82-7	84.20	4.00	13.8	122	420		20	WG1843294
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1842826
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1842826
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1842826
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1842826
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1842826
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1842826
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1842826
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1842826
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1842826
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1842826
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1842826
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1842826
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1842826
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1842826
Ethanol	64-17-5	46.10	1.25	2.36	16.8	31.7		1	WG1842826
Ethylbenzene	100-41-4	106	0.200	0.867	0.668	2.90		1	WG1842826
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.06	5.20		1	WG1842826
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.225	1.26		1	WG1842826
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1842826
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1842826
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1842826
Heptane	142-82-5	100	0.200	0.818	93.6	383		1	WG1842826
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1842826
n-Hexane	110-54-3	86.20	12.6	44.4	524	1850		20	WG1843294
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.625	3.07		1	WG1842826
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1842826
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1842826
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	6.04	17.8		1	WG1842826
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1842826
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1842826
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1842826
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1842826
2-Propanol	67-63-0	60.10	1.25	3.07	34.8	85.5		1	WG1842826
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG1842826
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1842826
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1842826
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1842826
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1842826
Toluene	108-88-3	92.10	0.500	1.88	3.90	14.7		1	WG1842826
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1842826

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 03/31/22 12:41

L1477943

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1842826
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1842826
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1842826
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	3.37	16.5		1	WG1842826
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	2.00	9.82		1	WG1842826
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1842826
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1842826
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1842826
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1842826
m&p-Xylene	1330-20-7	106	0.400	1.73	1.92	8.32		1	WG1842826
o-Xylene	95-47-6	106	0.200	0.867	0.865	3.75		1	WG1842826
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	3130	12900		1	WG1842826
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1842826
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.0				WG1843294

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3777317-3 04/04/22 09:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1477943-01

Method Blank (MB)

(MB) R3777317-3 04/04/22 09:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	58.0		39.7	200
(S) 1,4-Bromofluorobenzene	96.4			60.0-140

Cp

Tc

Ss

Cn

Tr

Sr

Qc

Gl

Al

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777317-1 04/04/22 08:49 • (LCSD) R3777317-2 04/04/22 09:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.44	3.24	91.7	86.4	70.0-130			5.99	25
Allyl Chloride	3.75	3.87	3.89	103	104	70.0-130			0.515	25
Benzene	3.75	3.95	3.91	105	104	70.0-130			1.02	25
Benzyl Chloride	3.75	3.61	3.60	96.3	96.0	70.0-152			0.277	25
Bromodichloromethane	3.75	3.99	3.96	106	106	70.0-130			0.755	25
Bromoform	3.75	4.16	4.18	111	111	70.0-130			0.480	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777317-1 04/04/22 08:49 • (LCSD) R3777317-2 04/04/22 09:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromomethane	3.75	3.94	3.92	105	105	70.0-130			0.509	25
1,3-Butadiene	3.75	4.67	4.59	125	122	70.0-130			1.73	25
Carbon disulfide	3.75	4.05	3.93	108	105	70.0-130			3.01	25
Carbon tetrachloride	3.75	3.93	3.87	105	103	70.0-130			1.54	25
Chlorobenzene	3.75	3.88	3.86	103	103	70.0-130			0.517	25
Chloroethane	3.75	3.78	3.73	101	99.5	70.0-130			1.33	25
Chloroform	3.75	3.91	3.91	104	104	70.0-130			0.000	25
Chloromethane	3.75	3.97	3.87	106	103	70.0-130			2.55	25
2-Chlorotoluene	3.75	3.91	3.99	104	106	70.0-130			2.03	25
Dibromochloromethane	3.75	4.07	4.02	109	107	70.0-130			1.24	25
1,2-Dibromoethane	3.75	3.98	3.97	106	106	70.0-130			0.252	25
1,2-Dichlorobenzene	3.75	3.93	3.96	105	106	70.0-130			0.760	25
1,3-Dichlorobenzene	3.75	3.97	4.00	106	107	70.0-130			0.753	25
1,4-Dichlorobenzene	3.75	4.02	4.05	107	108	70.0-130			0.743	25
1,2-Dichloroethane	3.75	3.92	3.89	105	104	70.0-130			0.768	25
1,1-Dichloroethane	3.75	3.93	3.84	105	102	70.0-130			2.32	25
1,1-Dichloroethene	3.75	3.94	3.89	105	104	70.0-130			1.28	25
cis-1,2-Dichloroethene	3.75	3.94	3.91	105	104	70.0-130			0.764	25
trans-1,2-Dichloroethene	3.75	3.90	3.86	104	103	70.0-130			1.03	25
1,2-Dichloropropane	3.75	3.86	3.88	103	103	70.0-130			0.517	25
cis-1,3-Dichloropropene	3.75	4.13	3.97	110	106	70.0-130			3.95	25
trans-1,3-Dichloropropene	3.75	4.11	4.00	110	107	70.0-130			2.71	25
1,4-Dioxane	3.75	4.16	4.04	111	108	70.0-140			2.93	25
Ethanol	3.75	3.58	3.58	95.5	95.5	55.0-148			0.000	25
Ethylbenzene	3.75	3.99	4.06	106	108	70.0-130			1.74	25
4-Ethyltoluene	3.75	4.12	4.16	110	111	70.0-130			0.966	25
Trichlorofluoromethane	3.75	3.92	3.89	105	104	70.0-130			0.768	25
Dichlorodifluoromethane	3.75	3.96	3.89	106	104	64.0-139			1.78	25
1,1,2-Trichlorotrifluoroethane	3.75	3.95	3.89	105	104	70.0-130			1.53	25
1,2-Dichlorotetrafluoroethane	3.75	3.95	3.91	105	104	70.0-130			1.02	25
Heptane	3.75	3.95	3.94	105	105	70.0-130			0.253	25
Hexachloro-1,3-butadiene	3.75	4.06	4.10	108	109	70.0-151			0.980	25
Isopropylbenzene	3.75	4.00	4.06	107	108	70.0-130			1.49	25
Methylene Chloride	3.75	3.88	3.84	103	102	70.0-130			1.04	25
Methyl Butyl Ketone	3.75	4.20	4.14	112	110	70.0-149			1.44	25
Methyl Ethyl Ketone	3.75	3.98	3.86	106	103	70.0-130			3.06	25
4-Methyl-2-pentanone (MIBK)	3.75	4.14	4.09	110	109	70.0-139			1.22	25
Methyl Methacrylate	3.75	4.03	3.98	107	106	70.0-130			1.25	25
MTBE	3.75	4.01	3.98	107	106	70.0-130			0.751	25
Naphthalene	3.75	4.35	4.45	116	119	70.0-159			2.27	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777317-1 04/04/22 08:49 • (LCSD) R3777317-2 04/04/22 09:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.98	3.94	106	105	70.0-139			1.01	25
Propene	3.75	3.75	3.80	100	101	64.0-144			1.32	25
Styrene	3.75	3.98	4.05	106	108	70.0-130			1.74	25
1,1,2,2-Tetrachloroethane	3.75	3.98	4.00	106	107	70.0-130			0.501	25
Tetrachloroethylene	3.75	3.92	3.86	105	103	70.0-130			1.54	25
Tetrahydrofuran	3.75	3.95	3.90	105	104	70.0-137			1.27	25
Toluene	3.75	3.95	3.95	105	105	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	4.06	4.14	108	110	70.0-160			1.95	25
1,1,1-Trichloroethane	3.75	3.91	3.87	104	103	70.0-130			1.03	25
1,1,2-Trichloroethane	3.75	3.94	3.87	105	103	70.0-130			1.79	25
Trichloroethylene	3.75	3.91	3.85	104	103	70.0-130			1.55	25
1,2,4-Trimethylbenzene	3.75	4.10	4.18	109	111	70.0-130			1.93	25
1,3,5-Trimethylbenzene	3.75	4.04	4.08	108	109	70.0-130			0.985	25
2,2,4-Trimethylpentane	3.75	3.97	3.96	106	106	70.0-130			0.252	25
Vinyl chloride	3.75	3.94	3.96	105	106	70.0-130			0.506	25
Vinyl Bromide	3.75	3.94	3.96	105	106	70.0-130			0.506	25
Vinyl acetate	3.75	4.14	3.91	110	104	70.0-130			5.71	25
m&p-Xylene	7.50	8.13	8.20	108	109	70.0-130			0.857	25
o-Xylene	3.75	3.99	4.07	106	109	70.0-130			1.99	25
TPH (GC/MS) Low Fraction	203	236	239	116	118	70.0-130			1.26	25
(S) 1,4-Bromofluorobenzene				98.8	100	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1477943-01](#)

Method Blank (MB)

(MB) R3777764-3 04/05/22 10:11

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	91.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777764-1 04/05/22 08:44 • (LCSD) R3777764-2 04/05/22 09:29

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	3.18	3.18	84.8	84.8	70.0-130			0.000	25
n-Hexane	3.75	2.99	3.10	79.7	82.7	70.0-130			3.61	25
(S) 1,4-Bromofluorobenzene				92.4	93.8	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

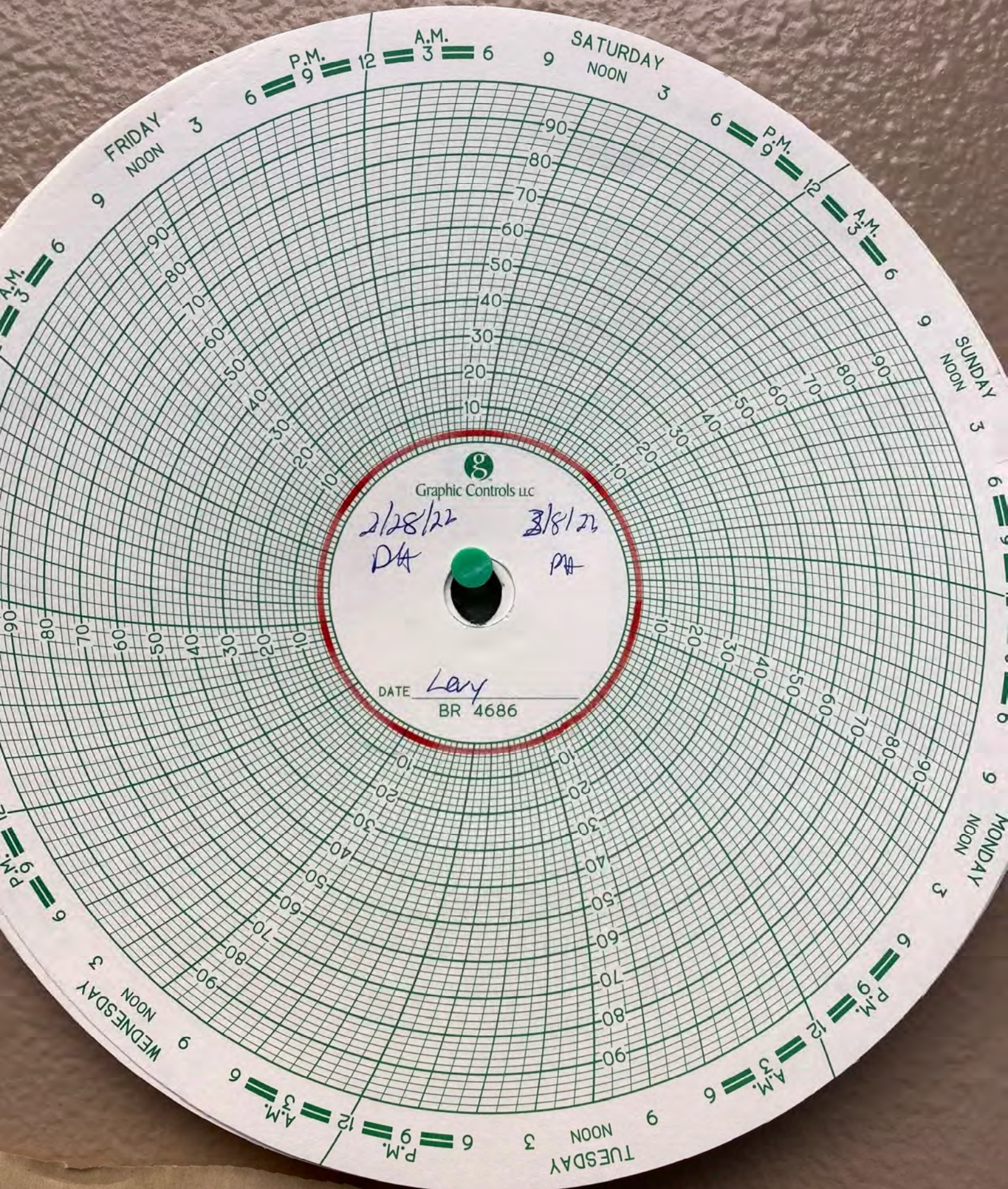
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

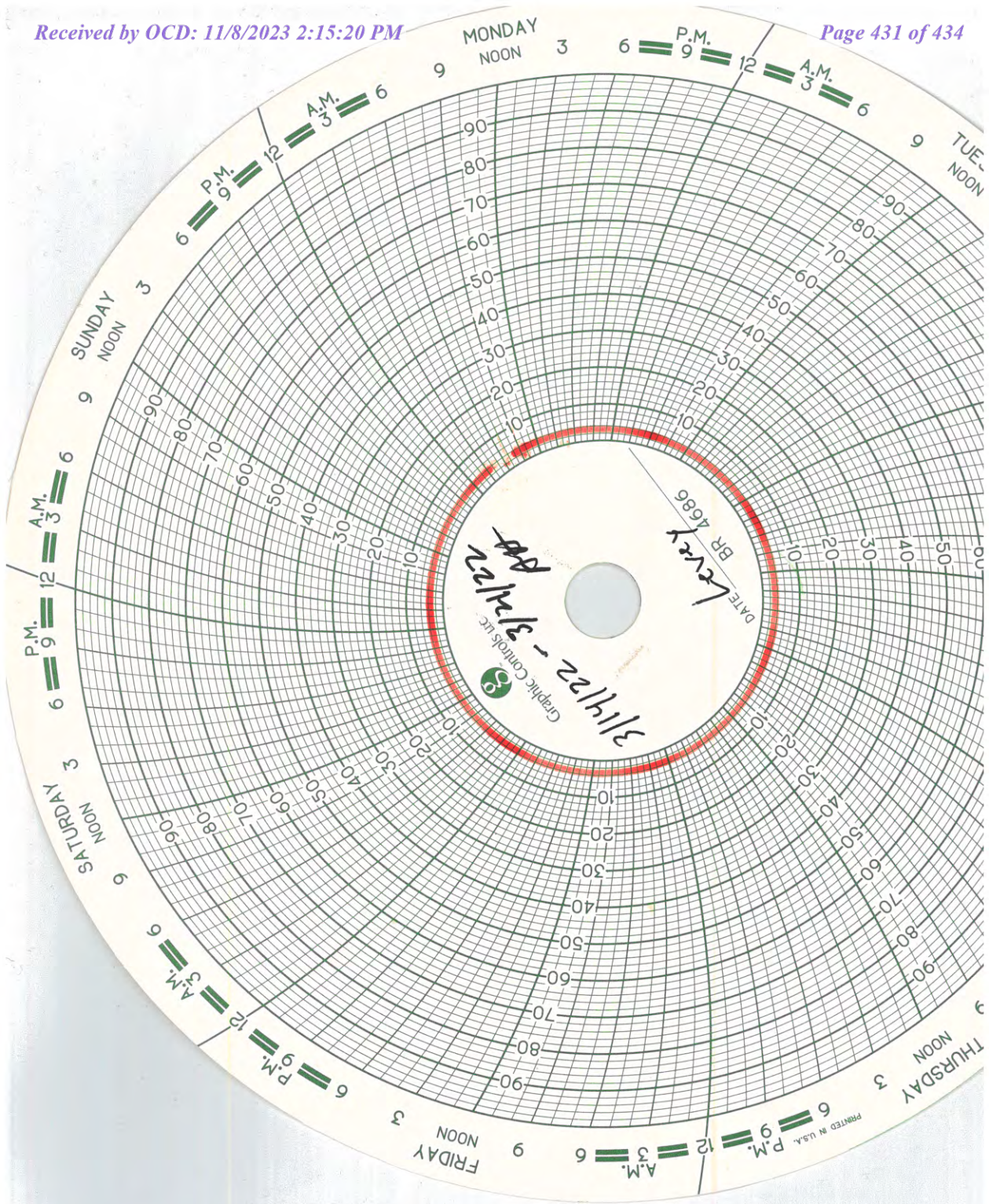


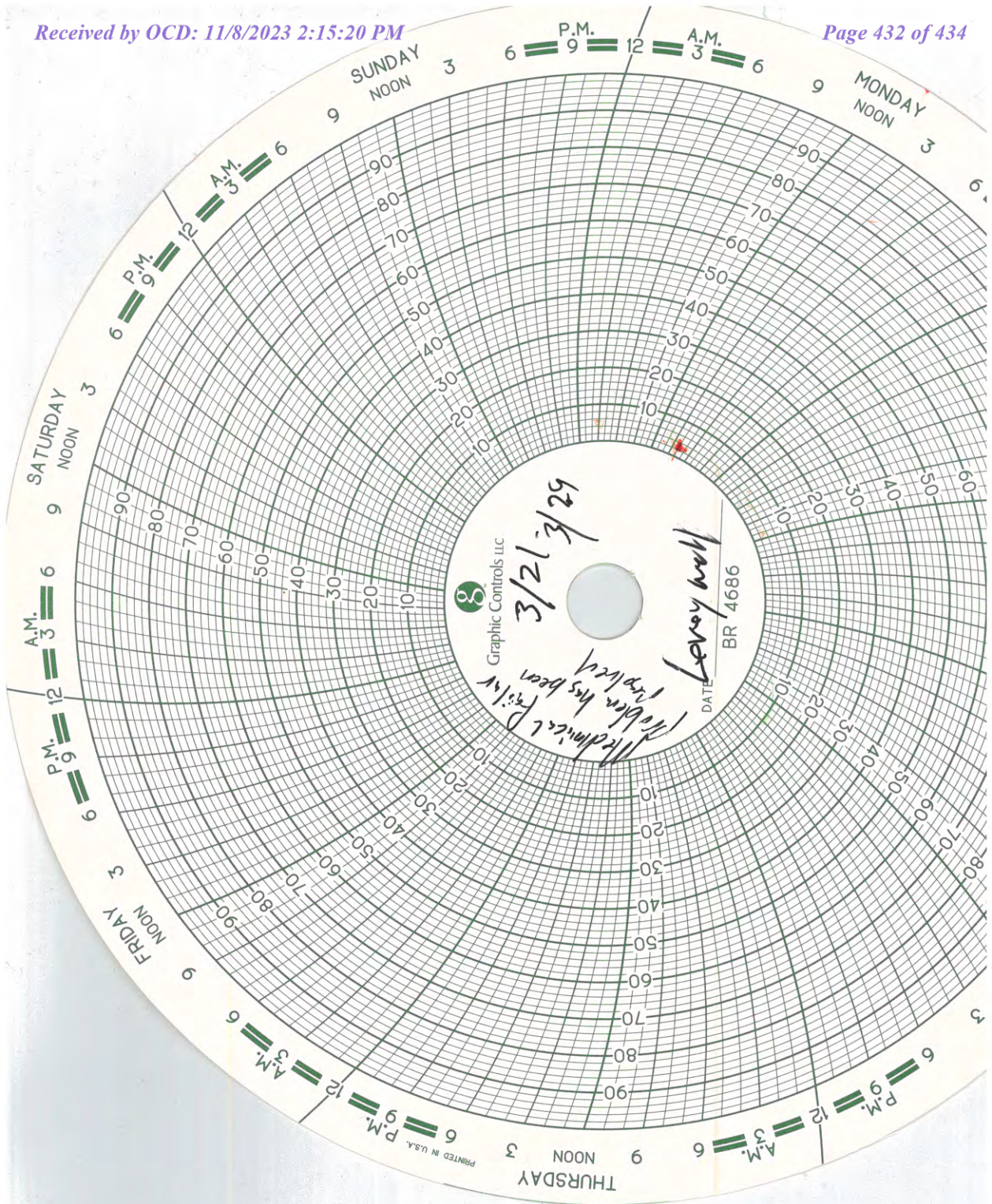


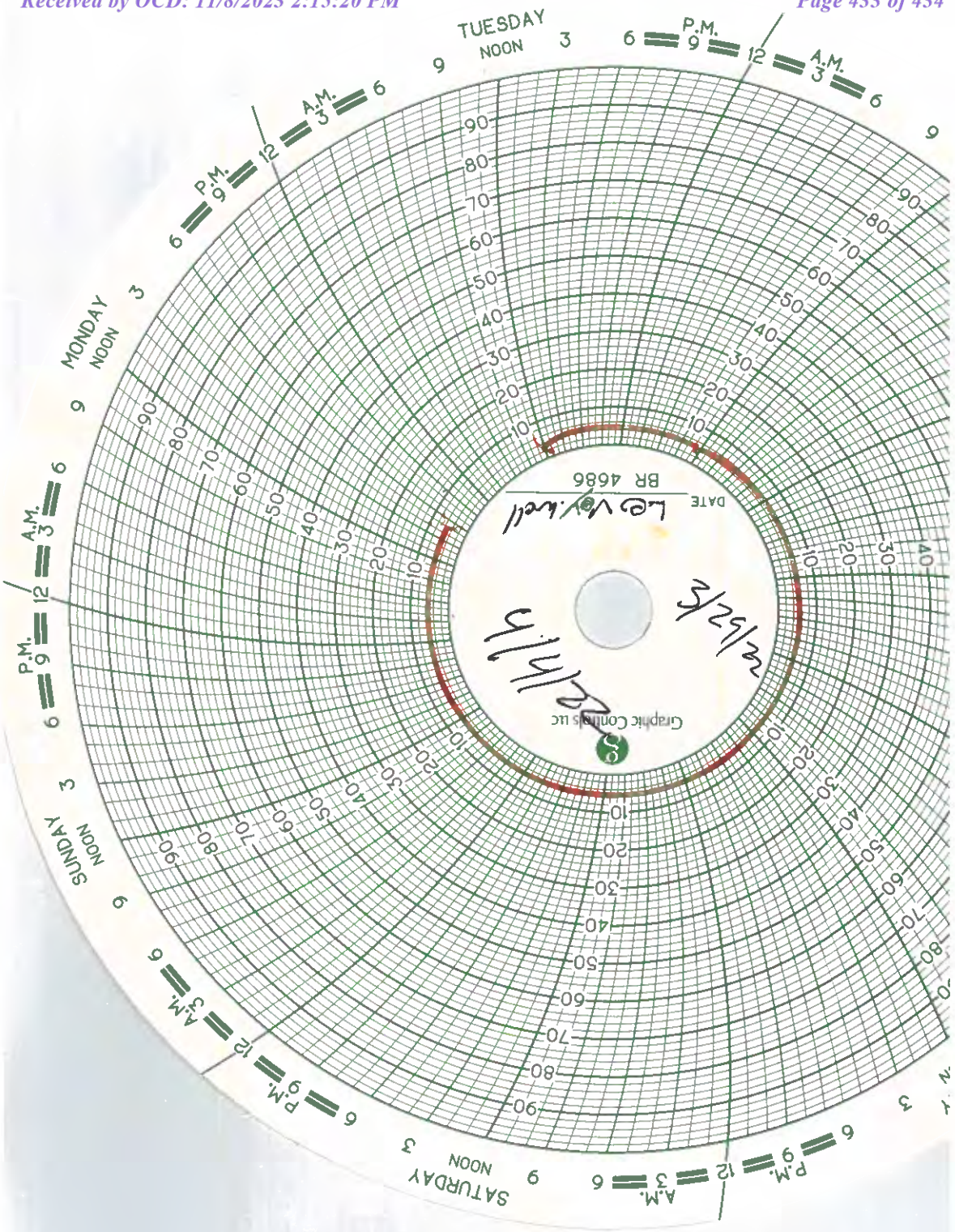
APPENDIX D

Levey Well Integrity Test Documentation









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

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

CONDITIONS

Action 284032

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 284032
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Accepted for the record: GAS MITIGATION MONTHLY REPORT - MARCH 2022 South Hobbs G/SA Unit EMNRD OCD Order No. R-4934-F, Case No. 14981	3/20/2024