



ENSOLUM

GAS MITIGATION MONTHLY REPORT - SEPTEMBER 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**

December 6, 2022

Prepared for:

**Occidental Permian LTD
6001 Deauville Blvd.
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Principal



ENSOLUM

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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 - September 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, the *Gas Mitigation Monthly Report - February 2022*, dated March 24, 2022, the *Gas Mitigation Monthly Report - March 2022*, dated May 4, 2022, the *Gas Mitigation Monthly Report - April 2022*, dated July 11, 2022, the *Gas Mitigation Monthly Report - May 2022*, dated July 22, 2022 and the *Gas Mitigation Monthly Report - June 2022*, dated July 22, 2022, the *Gas Mitigation Monthly Report - July 2022*, dated September 1, 2022, and the *Gas Mitigation Monthly Report - August 2022*, dated December 6, 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 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 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 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 September 28, 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 September 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 0.0145 milligrams per liter (mg/L) to 0.0208 mg/L in monitoring well MW-2. Nitrite as N concentrations ranged from <0.0293 mg/L to 2.31 mg/L in monitoring well MW-2. TDS analytical results ranged from 1,160 mg/L to 1,250 mg/L in the Levey Well. 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 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 10/4/2022, with no pressure observed in either monitoring well. The pressure reading charts available for September 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 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 September 1 - 30, 2022 was approximately 701,259 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 has been active as of March 14, 2022.

1.3 Gas Recovery – Levey Well

OXY conducted one vacuum recovery event during the month of September 2022 with positive results as shown on **Table 4** in **Appendix B**. The purpose of this event was 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 October 2022 once every two 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 sample on September 26, 2022, was taken prior to, during, and subsequent to the vacuum recovery event utilizing Summa[®] canisters. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one hour. An air sample is taken after one hour of the Levey Well stabilization, prior to initiating the vacuum recovery event.

During the September 26, 2022, vacuum recovery event, the vacuum was applied to the Levey Well for a duration of approximately two hours. Approximately one hour and two hours into the event, an air sample was taken. The vacuum was then turned off and an additional air sample from the Levey Well was taken one hour subsequent to the vacuum recovery event. Water was not recovered during the vacuum recovery event.

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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 September 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 hour prior to sampling. Once the Levey Well is properly purged and readings from the AquaTROLL 500 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 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 to five minutes. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three successive readings.

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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 October 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, and/or TPH were observed prior to the initiation of each vacuum recovery event.

Once initiated, an air sample is taken at one hour and two hours into the vacuum recovery event. During each of the vacuum recovery events, acetone, cyclohexane, heptane, n-hexane, 2-propanol, 2-Butanone (MEK), toluene, and TPH concentrations significantly decrease throughout the duration of the event, with the exception of ethanol which increased slightly from <47.1 ug/m³ to 68.1 ug/m³ between the one and two hour vacuum recovery event sampling times.

Approximately one 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, 1,3,5-trimethylbenzene, and TPH begin to accumulate inside the Levey water well casing, with the exception of ethanol which decreased from 68.1 ug/m³ to <47.1 ug/m³ between the two hour vacuum recovery event sampling time and the termination of the vacuum recovery event. 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 week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of acetone, carbon disulfide, cyclohexane, ethanol, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, Tetrachloroethylene, 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 September 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.

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Levey Well

TDS analytical results ranged from 1,160 mg/L to 1,250 mg/L in the Levey Well. 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). 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.

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 0.0145 mg/L to 0.0208 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

One Nitrite as N exceedance of 2.31 mg/L from monitoring well MW-2 was observed during the September 2022 sampling, which is 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 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;**

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- **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 beginning in 2023.**

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 NewMexico 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 methaneconcentration 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



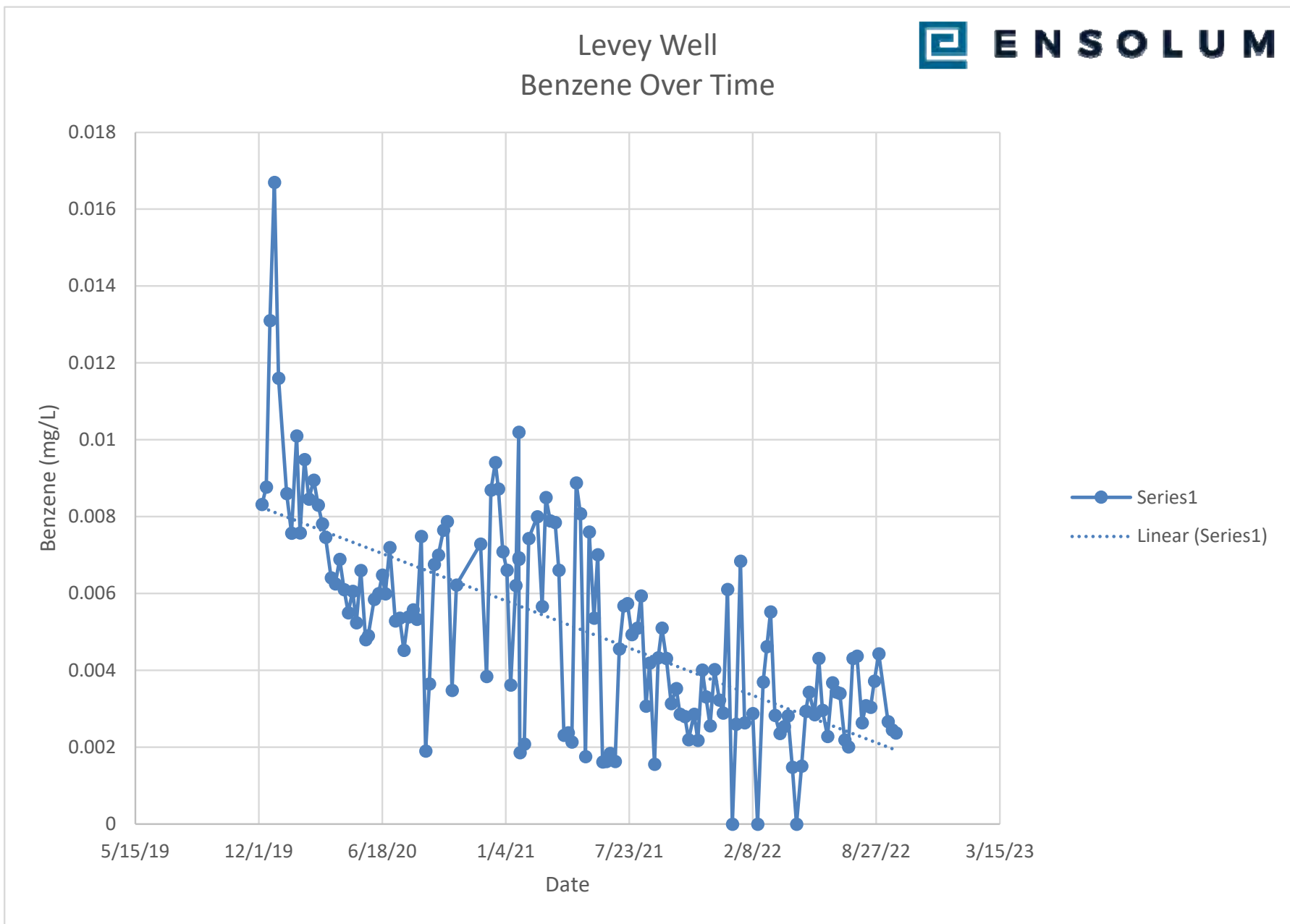
SITE MAP

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 Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	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-Dichloroethy/lene	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	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	<0.0250	<0.00500	<0.00500	<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</							

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TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																														
Sample Designation	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-Dichloroethy/lene	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	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2022	0.000940 J	0.00568	0.00394	0.00181	0.0134	0.0152	<0.00270	<0.000286	0.000577 J	<0.000195	0.000654 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000397 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00213	<0.00200	0.00127	<0.000228	<0.000623	0.0168	0.00498	
	1/12/2022	0.00260	0.0190	0.01020	0.00573	0.0381	0.0438	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000621 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00707	<0.00200	0.00273	<0.000228	<0.000623	0.0197	<0.000279	
	1/19/2022	0.00684	0.0520	0.0252	0.0158	0.0980	0.114	0.00679 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00123	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0118	<0.00200	0.00592	<0.000228	<0.000623	0.0296	0.00947	
	1/26/2022	0.00264	0.0206	0.0103	0.00604	0.0392	0.0452	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000568 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00507	<0.00200	0.00258	<0.000228	<0.000623	0.0139	0.00433	
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																												
	2/8/2022	0.00288	0.0228	0.0122	0.00697	0.0458	0.0528	0.0112 J	<0.000286	0.00125	<0.000195	0.00194	<0.000259	<0.000318	<0.000214	<0.000183	0.000813 J	<0.000285	<0.000396	<0.000174	0.000211 J	<0.000481	0.00591	<0.00200	0.00329	<0.000228	<0.000623	0.0228	0.00693	
	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283	
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450	
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470	
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720	
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																												
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388	
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323	
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390	
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386	
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264	
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156	
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242	
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440	
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463	
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345	
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580	
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200	0.00212	<0.000228	<0.000623	0.00987	0.00337	
	6/9/2022	0.00228	0.0182	0.00874	0.00514	0.0352	0.0403	<0.00270	0.000536 J	0.000776 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000539 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00436	<0.00200	0.00197	<0.000228	<0.000623	0.00847	0.00271	
	6/17/2022	0.00368	0.0282	0.0141	0.00881	0.0544	0.0632	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000744 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00678	<0.00200	0.00340	<0.000228	<0.000623	0.0152	0.00482	
	6/23/2022	0.00344	0.0304	0.0149	0.00959	0.0599	0.0695	<0.00270	<0.000286																					

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	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	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	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-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	0.000240 J	<0.000228	<0.000162	0.000780 J	0.000370 J
	3/17/2021	0.00159	0.00112	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	<0.00100	<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.					

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002	

Sample Designation	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	ter-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-1	1/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	1/12/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	1/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	0.000640 J	0.000640 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000396	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	0.000414 J	<0.000279
	1/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000259	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	0.000623	<0.000252	<0.000279
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	0.000799 J	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000623	<0.000252	<0.000279
	2/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	2/25/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	3/3/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	3/9/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	3/24/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	3/31/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	4/6/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	4/13/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	4/20/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	4/28/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	5/5/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	5/10/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	5/19/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	5/26/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	6/1/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	6/9/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<0.00270	<0.000199	<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	<0.000623	<0.000252	<0.000279
	6/17/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	6/23/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	6/29/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	7/7/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	<0.000623	<0.000252	<0.000279
	7/13/2022	<0.000214	<0.000500	<0.000515	<0.000192	<0.000330	<0.000330	<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	&lt				

TABLE 1 GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																													
Sample Designation	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	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	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	<0.00500	<0.00500	<0.00100	<0.00500	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</						

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	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	0.005	0.1	NE	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/6/2022	0.0360	0.00656	0.0309	0.0229	0.253	0.274	<0.00270	0.00192	0.00273	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00265	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00488	<0.000228	<0.000623	0.108	0.0273
	1/12/2022	0.0205	0.00174	0.00106	0.0200	0.0949	0.115	<0.00270	<0.000286	0.00132	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00184	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.000546 J	<0.000228	<0.000623	0.0619	0.00491
	1/19/2022	0.0262	0.00733	0.0305	0.0147	0.229	0.249	<0.00270	0.00104	0.00147	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.00286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000314 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00555	<0.00200	0.00112	<0.000228	<0.000623	0.0145	0.00380
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.00286	0.000510 J	<0.000195	<0.000500	<0.000259	0.00165 J	<0.000214	<0.000183	0.000391 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00544	<0.00200	0.00149	<0.000228	<0.000623	0.0150	0.00409
	2/16/2022	0.0357	0.0270	0.0391	0.0307	0.205	0.244	<0.00270	<0.00286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846
	6/1/2022	0.0387	0.00639	0.0414	0.0212	0.230	0.253	<0.00270	<0.000286	0.00172	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00147	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0156	<0.00200	0.00395	<0.000228	<0.000623	0.0573	0.0153
	6/9/2022	0.0194	0.00241	0.0228	0.0102	0.118	0.128	<0.00270	<0.000286	0.00124	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00104	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0108	<0.00200	0.00304	<0.000228	<0.000623	0.0356	0.00926
	6/17/2022	0.0214	0.00267	0.0262	0.00984	0.126	0.136	<0.00270	0.00115	0.00161	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0132	<0.00200	0.00436	<0.000228	<0.000623	0.0490	0.0130
	6/23/2022	0.0235	0.00355	0.0311	0.0139	0.139	0.153	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00120	<0.000285	<										



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																
Sample Designation	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
	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															



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																
Sample Designation	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	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	6.4
	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	6.1
	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	6.3
	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	6.4
	2/2/2022	Unable to Sample due to Incliment 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	6.5
	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	6.6
	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	6.4
	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	6.3
	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	6.3
	3/14/2022	Booster Pump for Levey Well Repaired and Backon 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	6.4
	3/24/2022	0.539	230	0.709	<0.0391	<0.0293	43.4	252	51.3	4.07	81.5	1,390	644	<4.00	-4.80	6.5
	3/31/2022	0.515	223	0.690	0.239	<0.0293	44.0	245	52.7	3.79	77.2	1,220	641	<4.00	-5.18	6.4
	4/6/2022	0.540	218	0.868	0.0931 J	<0.0293	42.4	256	50.3	3.90	76.6	1,220	619	<4.00	-2.94	6.4
	4/13/2022	0.400 J	212	0.773	0.111	<0.0293	42.0	256	51.3	3.87	74.5	1,200	650	<4.00	-3.94	6.6
	4/20/2022	0.496 J	218	0.651	0.268	<0.0293	44.6	238	48.7	4.05	75.0	1,260	686	<4.00	-8.77	6.6
	4/28/2022	0.477 J	214	0.690	0.104	<0.0293	43.2	272	55.4	4.43	84.3	1,140	658	<4.00	-1.11	6.8
	5/5/2022	0.352 J	217	0.567	0.737 J	1.93	41.8	233	49.1	3.67	82.4	1,210	659	<4.00	-7.39	6.6
	5/10/2022	0.589	219	0.643	0.100	<0.0293	44.6	301	61.6	4.74	90.5	1,080	652	<4.00	2.74	6.4
	5/19/2022	0.551	217	0.519	<0.0391	<0.0293	45.9	242	51.7	4.08	74.8	1,040	421	<4.00	5.76	6.7
	5/26/2022	0.606	212	0.714	0.0986 J	2.77	41.2	215	38.7	2.93	66.7	1,240	683	<4.00	-11.5	6.2
	6/1/2022	0.449 J	205	0.788	0.0622 J	<0.0293	37.2	219	42.0	3.22	67.7	1,100	402	<4.00	2.15	7.0
	6/9/2022	0.395 J	215	0.332 J	0.0721 J	<0.0293	44.2	295	53.3	4.27	80.9	1,170	712	<4.00	-1.83	6.3
	6/17/2022	0.282 J	204	0.643	0.151	<0.0293	43.9	190	35.3	2.54	59.9	1,160	619	<4.00	-16.7	6.4
	6/23/2022	0.321 J	206	0.377 J	0.250	<0.0293	38.4	306	47.2	3.80	73.0	1,150	454	<4.00	11.3	6.5
	6/29/2022	0.350 J	213	0.505	0.207	<0.0293	44.4	243	49.9	3.79	77.7	889	674	<4.00	-6.92	6.3
	7/7/2022	0.425 J	214	0.609	<0.0391	<0.0293	46.0	251	50.6	3.88	77.0	1,470	592	<4.00	-2.28	6.5
	7/13/2022	0.393 J	212	0.663	0.129	<0.0293	46.2	245	48.1	3.89	74.2	1,160	417	<4.00	5.53	6.3
	7/20/2022	0.468 J	207	0.383 J	0.0538 J	<0.0293	47.5	251	51.8	4.12	77.2	1,170	742	<4.00	-8.12	6.4
	7/27/2022	0.437 J	209	0.349 J	0.201	<0.0293	46.2	215	42.6	3.22	68.3	1,350	601	<4.00	-9.64	6.7
	8/4/2022	0.483 J	211	0.453 J	0.236	<0.0293	45.4	199	39.8	3.04	65.6	1,300	600	<4.00	-13.2	6.4
	8/10/2022	0.464 J	215	0.475 J	0.103	<0.0293	44.3	278	53.6	4.27	78.9	1,160	567	<4.00	3.02	6.5
	8/18/2022	0.473 J	213	0.552	0.157	<0.0293	45.4	261	52.0	4.22	80.6	1,370	563	<4.00	0.748	6.5
	8/24/2022	0.500	222	0.674	<0.100	<0.100	48.7	229	46.5	3.28	72.0	1,280	728	<4.00	-12.7	6.6
	8/31/2022	0.434 J	217	0.468 J	<0.0391	<0.0293	46.8	253	50.7	4.20	79.3	1,270	651	<4.00	-4.91	6.9
	9/15/2022	1.55	218	0.688	0.116	<0.0293	47.4	241	52.6	4.39	81.7	1,170	618	<4.00	-4.19	6.4
	9/22/2022	0.468 J	217	0.316 J	0.546	<0.0293	52.8	179	39.9	3.11	66.4	1,250	613	<4.00	-17.7	6.4
	9/28/2022	2.32	214	0.688	0.234	<0.0293	47.2	242	48.3	4.11	73.6	1,160	592	<4.00	-4.04	6.4



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																		
Sample Designation	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	6.9		
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.7		
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.5		
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.6		
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.5		
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.5		
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.5		
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.8		
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.5		
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.3		
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.5		
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.6		
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.7		
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.8		
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.7		
	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	6.8		
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.8		
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.7		
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.7		
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.9		
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.6		
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.8		
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.8		
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.8		
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.9		
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.0		
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.9		
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.9		
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.9		
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.1		
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.1		
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.0		
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.1		
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.4		
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.8		
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.3		
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.9		
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.9		
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.1		
	12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.3		
	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.0		
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.7		
	1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.0		
	1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.1		
	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	6.9		
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5	NA					384	<4.00	NA	7.1		
	2/25/2022	NA	171	0.739	0.125	0.156	50.3	NA					342	<4.00	NA	7.1		
	3/3/2022	NA	158	0.531	0.198	0.181	45.9	NA					360	<4.00	NA	6.9		
	3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4	NA					323	<4.00	NA	7.2		
	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	7.0			
3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9	NA					297	<4.00	NA	7.2			
3/31/2022	NA	143	0.568	0.164	<0.0293	40.4	NA					275	<4.00	NA	7.1			
4/6/2022	NA	133	0.677	0.186	<0.0293	39.7	NA					262	<4.00	NA	7.1			
4/13/2022	NA	129	0.767	<0.0391	<0.0293	40.9	NA					259	<4.00	NA	7.6			
4/20/2022	NA	173	0.574	0.152	0.176	42.4	NA					362	<4.00	NA	7.0			
4/28/2022	NA	136	0.608	0.0700 J	0.0717 J	41.7	NA					300	<4.00	NA	7.5			
5/5/2022	NA	118	0.746	<0.0391	1.75	41.1	NA					253	<4.00	NA	7.2			
5/10/2022	NA	116	0.709	0.0815 J	<0.0293	43.9	NA					250	<4.00	NA	7.2			
5/19/2022	NA	106	0.643	0.0743 J	0.199	41.0	NA					262	<4.00	NA	7.1			
5/26/2022	NA	98.7	0.720	0.0777 J	0.809	44.7	NA					256	<4.00	NA	7.2			
6/1/2022	NA	100	0.690	0.0629 J	<0.0293	46.4	NA					240	<4.00	NA	7.4			
6/9/2022	NA	99.9	0.743	<0.0391	<0.0293	46.6	NA					246	<4.00	NA	7.1			
6/17/2022	NA	83.5	0.710	0.146	0.275	47.9	NA					253	<4.00	NA	7.3			
6/23/2022	NA	83.9	0.616	0.238	<0.0293	47.7	NA					258	<4.00	NA	7.2			
6/29/2022	NA	84.8	0.644	0.199	0.556	48.0	NA					264	<4.00	NA	7.2			
7/7/2022	NA	83.7	0.660	0.0413 J	0.0458 J	47.7	NA					238	<4.00	NA	7.4			
7/13/2022	NA	91.3	0.778	0.102	<0.0293	49.2	NA					253	<4.00	NA	7.2			
7/20/2022	NA	81.5	0.766	<0.0391	<0.0293	48.5	NA					249	<4.00	NA	7.2			
7/27/2022	NA	85.8	0.766	0.0482 J	<0.0293	47.2	NA					268	<4.00	NA	7.7			
8/4/2022	NA	77.5	0.633	0.126	0.118	43.1	NA					253	<4.00	NA	7.2			
8/10/2022	NA	68.3	0.737	<0.0391	0.212	40.9	NA					278	<4.00	NA	7.2			
8/18/2022	NA	77.7	0.752	0.0696 J	0.154	39.4	NA					262	<4.00	NA	7.0			
8/24/2022	NA	92.0	0.739	<0.100	<0.100	40.8	NA					273	<4.00	NA	7.2			
8/31/2022	NA	85.9	0.628	<0.0391	<0.0293	36.7	NA					277	<4.00	NA	7.4			
9/15/2022	NA	86.4	1.03	0.0909 J	0.206	33.4	NA					277	<4.00	NA	7.0			
9/22/2022	NA	95.8	0.585	0.518	<0.0293	38.4	NA					280	<4.00	NA	7.3			
9/28/2022	NA	91.2	0.702	<0.0391	<0.0293	32.8	NA					285	<4.00	NA	7.3			



TABLE 2 GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001 / 03B1417002																				
Sample Designation	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														6.15		
	1/6/2021	NA	124	NA														6.24		
	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	6.5				
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.4				
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.2				
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.1				
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.1				
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.2				
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.3				
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.3				
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.2				
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.5				
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.2				
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.1				
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.5				
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.5				
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.4				
	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	6.4				
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.4				
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.3				
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.4				
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.5				
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.3				
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.4				
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.5				
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.4				
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.4				
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.4				
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.3				
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.4				
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.4				
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.5				
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.5				
	11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.6				
	11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.5				
	11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.6				
	11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.3				
	12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.9				
	12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.3				
	12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.3				
	12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.4				
	12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.3				
	1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.4				
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.2				
	1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.1				
	1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.1				
	2/2/2022	Unable to Sample due to Incliment 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	6.1				
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.2				
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.3				
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.1				
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.2				
	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	6.2					
3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<4.00	NA	6.3					
3/31/2022	NA	150	<0.100	<0.0391	1.65	106	NA					1,340	<4.00	NA	6.3					
4/6/2022	NA	130	0.175 J	0.619	1.60	111	NA					1,360	<4.00	NA	6.2					
4/13/2022	NA	135	0.271 J	0.589	1.67	108	NA					1,380	<4.00	NA	6.5					
4/20/2022	NA	198	0.174 J	0.966	0.722	121	NA					1,330	<4.00	NA	6.4					
4/28/2022	NA	156	0.172 J	0.711	0.434	118	NA					1,380	<4.00	NA	6.4					
5/5/2022	NA	116	0.229 J	0.586	11.5	112	NA					1,330	<4.00	NA	6.3					
5/10/2022	NA	134	0.230 J	0.548	1.83	120	NA					1,320	<4.00	NA	6.3					
5/19/2022	NA	133	0.116 J	<0.0391	0.373	118	NA					1,380	<4.00	NA	6.2					
5/26/2022	NA	107	0.196 J	0.392	1.14	104	NA					1,320	<4.00	NA	6.0					
6/1/2022	NA	130	0.107 J	0.481	1.47	116	NA					1,340	<4.00	NA	6.3					
6/9/2022	NA	103	<0.100	0.330	0.236	103	NA					1,320	<4.00	NA	6.2					
6/17/2022	NA	99.0	0.213 J	0.395	0.702	102	NA					1,290	<4.00	NA	6.4					
6/23/2022	NA	109	<0.100	0.494	5.21	107	NA					1,270	<4.00	NA	6.3					
6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7	NA					1,330	<4.00	NA	6.2					
7/7/2022	NA	107	0.141 J	0.399	0.440	98.3	NA					1,300	<4.00	NA	6.4					
7/13/2022	NA	95.3	0.262 J	0.306	1.23	100	NA					1,280	<4.00	NA	6.2					
7/20/2022	NA	134	<0.100	0.485	1.46	122	NA					1,360	<4.00	NA	6.3					
7/27/2022	NA	101	<0.100	0.403	3.86	105	NA					1,340	<4.00	NA	6.4					
8/4/2022	NA	107	0.112 J	0.451	0.477	99.9	NA					1,250	<4.00	NA	6.2					
8/10/2022	NA	89.4	0.189 J	0.189	0.210	97.2	NA					1,260	<4.00	NA	6.3					
8/18/2022	NA	99.1	0.122 J	0.333	0.303	100	NA					1,280	<4.00	NA	6.3					
8/24/2022	NA	110	0.172 J	0.282	0.427	103	NA					1,290	<4.00	NA	6.3					
8/31/2022	NA	94.8	<0.100	0.175	0.238	94.4	NA					1,280	<4.00	NA	6.3					
9/15/2022	NA	94.4	0.538	0.232	2.31	98.7	NA					1,320	<4.00	NA	6.3					
9/22/2022	NA	94.4	0.260 J	0.650	0.481	105	NA					1,320	<4.00	NA	6.3					
9/28/2022	NA	91.2	0.498 J	0.261	<0.0293	92.5	NA					1,280	<4.00	NA	6.3					



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002									
Sample Designation	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		
4/6/2022	<0.495	41.6	<0.926	<0.926	<0.894	<0.926	18.1		
4/13/2022	<0.495	13.0	<0.918	<0.918	<0.886	<0.918	19.0		
4/20/2022	<0.495	72.4	<0.904	<0.904	<0.872	<0.904	18.3		
4/28/2022	<0.495	18.9	<0.890	<0.890	<0.859	<0.890	19.9		
5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5		
5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7		
5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3		
5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0		
6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5		
6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3		
6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3		
6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0		
6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8		
7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1		
7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6		
7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0		
7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6		
8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2		
8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8		
8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7		
8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2		
8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9		
9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6		
9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0		
9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9		



TABLE 3 GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY South Hobbs G/SA Unit Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417002									
Sample Designation	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		
4/6/2022	<0.495	1,720	1.00 J	<0.938	<0.905	1.00 J	18.1		
4/13/2022	<0.495	874	0.915 J	<0.906	<0.875	0.915 J	19.0		
4/20/2022	<0.495	1,060	1.06 J	<0.901	<0.869	1.06 J	18.6		
4/28/2022	<0.495	1,100	1.76 J	<0.915	<0.883	1.76 J	19.8		
5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2		
5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8		
5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5		
5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1		
6/1/2022	<0.495	1,340	1.43 J	<0.909	<0.877	1.43 J	20.5		
6/9/2022	<0.495	1,080	1.23 J	<0.938	<0.905	1.23 J	19.8		
6/17/2022	<0.495	894	1.49 J	<0.895	<0.864	1.49 J	17.8		
6/23/2022	<0.495	1,270	1.25 J	<0.920	<0.888	1.25 J	18.0		
6/29/2022	<0.495	1,680	<0.935	<0.935	<0.902	<0.935	15.9		
7/7/2022	<0.495	1,190	0.912 J	<0.906	<0.875	0.912 J	23.0		
7/13/2022	<0.495	1,610	1.17 J	<0.947	<0.914	1.17 J	20.1		
7/20/2022	<0.495	1,360	1.07 J	<0.981	<0.947	1.07 J	19.8		
7/27/2022	<0.495	1,070	1.49 J	<0.975	<0.941	1.49 J	18.2		
8/4/2022	<0.495	1,570	1.31 J	<0.904	<0.872	1.31 J	19.2		
8/10/2022	<0.495	1,260	1.17 J	<0.932	<0.900	1.17 J	19.3		
8/18/2022	<0.495	1,280	1.43 J	7.62	<0.897	9.05	21.3		
8/24/2022	<5.00	1,300	1.18 J	<4.63	<4.63	1.18 J	18.0		
8/31/2022	1.00 J	1,290	1.08 J	<0.950	<0.917	1.08 J	20.0		
9/15/2022	<0.495	1,320	1.83 J	<1.07	<1.04	1.83 J	18.9		
9/22/2022	<0.495	1,320	1.56 J	<1.05	<1.01	1.56 J	20.9		
9/28/2022	<0.495	1,280	1.06 J	<1.05	<1.01	1.06 J	18.6		

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 Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	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	<1.70	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	1,200	<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	7.67	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	<2.18	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																											

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	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	1/3/2022	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
	2/28/2022	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
		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	<2															

TABLE 4
AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001

Sample Designation	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	5/5/2022	1454	<1,190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000	
	5/9/2022	0958	<1,190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000	
		1000	Initiate Vacuum Recovery Event																																				
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100	
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220	
		1105	Vacuum Recovery Event Terminated																																				
	5/19/2022	1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000	
		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000	
		1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000	
		5/23/2022	1017	Initiate Vacuum Recovery Event																																			
			1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000
	1200		927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000	
	1215		Vacuum Recovery Event Terminated																																				
	5/26/2022	1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2	<151	<87.0	<85.7	85.9	205	<56.3	<139	<64.4	785,000	
		1250	49,400	<1,280	<1,550	<1,240	<826	<2,060	196,000	<1,620	<1,590	12,900	<1,730	<1,960	<2,250	<1,980	336,000	28,000,000	<1,970	<1,390	<10,200	8,230	<10,200	<1,640	<6,600	161,000	<1,700	<2,720	<1,180	<3,770	<2,180	2,330	<1,960	<1,960	<1,410	<3,470	<1,730	8,260,000	
	6/1/2022	1405	8,290	<256	<311	<249	<165	<412	444,000	<324	<317	1,420	<347	<393	<450	<396	634,000	4,580,000	<393	<278	<2,040	6,100	<2,050	<328	<1,320	14,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	22,600,000	
	6/8/2022	1033	<23,800	<5,100	<6,210	<4,980	<3,300	<8,250	231,000	<6,480	<6,340	28,800	<6,940	<7,850	<8,990	<7,910	470,000	3,700,000	<7,870	<5,560	<40,900	<29,500	<40,900	18,600	<26,400	531,000	<6,810	<10,900	<4,720	<15,100	<8,700	<8,570	<7,850	<7,850	<5,630	<13,900	<6,940	15,900,000	
		1035	Initiate Vacuum Recovery Event																																				
		1058	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,340	<16.2	<15.9	60.9	30.8	56.4	<22.5	<19.8	13,300	32,900	<19.7	<13.9	<102	97.0	<102	<16.4	<66.0	166	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	70.7	135	<14.1	37.9	30.9	220,000	
		1138	<2.97	2.17	<0.776	9.65	1.80	<1.03	1,390	<0.810	<0.793	31.7	11.4	28.8	1.31	2.37	4,620	906	3.85	<0.694	<5.11	53.4	<5.12	<0.819	4.45	72.5	<0.851	1.89	<0.590	13.0	<1.09	3.89	36.2	60.4	<0.704	16.3	12.5	98,700	
		1153	Vacuum Recovery Event Terminated																																				
	6/9/2022	1300	<59.4	<12.8	17.5	30.3	45.4	<20.6	14,300	<16.2	<15.9	83.9	24.4	34.8	<22.5	<19.8	45,000	135,000	<19.7	<13.9	<102	985	<102	<16.4	<66.0	804	<17.0	<27.2	<11.8	40.7	<21.8	<21.4	43.2	83.9	<14.1	35.3	27.8	1,020,000	
		1333	<238	<51.1	<62.1	53.2	<33.0	<82.5	30,900	<64.8	<63.4	1,250	<69.4	<78.5	<89.9	<79.1	76,100	279,000	<78.7	87.5	<409	1,540	<409	<65.5	<264	12,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	223	<56.3	<139	79.3	1,220,000	
		6/12/2022	1315	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	5,960	<16.2	<15.9	790	<17.3	<19.6	<22.5	<19.8	7,930	108,000	<19.7	85.1	<102	563	<102	520	<66.0	11,700	<17.0	46.0	<11.8	64.8	<21.8	<21.4	<19.6	26.7	<14.1	<34.7	<17.3	271,000
		6/20/2022	1015	<238	<51.1	<62.1	<49.8	<33.0	<82.5	189,000	<64.8	<63.4	<189	<69.4	242	<89.9	<79.1	319,000	3,240,000	<78.7	<55.6	<409	7,960	<409	<65.5	<264	12,700	<68.1	<109	<47.2	<151	<87.0	<85.7	124	314	<56.3	157	105	10,600,000
			1040	Initiate Vacuum Recovery Event																																			
	1148		137	<12.8	<15.5	<12.4	<8.26	<20.6	1,390	<16.2	<15.9	<47.1	<17.3	57.4	<22.5	<19.8	3,870	14,200	<19.7	<13.9	<102	130	<102	<16.4	<66.0	112	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	39.3	78.0	<14.1	<34.7	<17.3	92,900	
	1256		95.5	<0.639	<0.776	<0.622	<0.413	<1.03	475	<0.810	<0.793	19.0	<0.867	15.5	<1.12	2.19	1,060	2,440	<0.983	<0.694	<5.11	64.9	<5.12	<0.819	<3.30	47.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	23.1	36.5	<0.704	5.68	5.46	35,100	
	1257		Vacuum Recovery Event Terminated																																				
	6/23/2022	1403	197	<0.639	<0.776	<0.622	<0.413	<1.03	1,050	<0.810	<0.793	18.6	<0.867	7.21	<1.12	<0.989	2,070	15,700	<0.983	<0.694	<5.11	102	<5.12	<0.819	<3.30	113	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	8.69	17.0	<0.704	3.90	3.65	88,000	
		1305	14,000	<639	<776	<622	<413	<1,030	48,600	<810	<793	3,260	<867	<982	<1,120	<989	107,000	702,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	48,700	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	221,000	
	6/29/2022	1255	27,300	<51.1	<62.1	161	<33.0	<82.5	339,000	<64.8	<63.4	1,690	<69.4	314	<89.9	<79.1	450,000	3,320,000	<78.7	<55.6	<409	19,000	<40																



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: 880-18993-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobbs, 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:

9/14/2022 12:23:33 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: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-18993-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-18993-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
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.

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.
E	Result exceeded calibration range.
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)

Definitions/Glossary

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

Job ID: 880-18993-1
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 Hobbs, NM - 03B1417001

Job ID: 880-18993-1
SDG: Hobbs NM

Job ID: 880-18993-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-18993-1**

Receipt

The sample was received on 9/8/2022 3:10 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 5.6°C

GC/MS VOA

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-68379 recovered outside control limits for the following analytes: Naphthalene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Due to the high concentration of Bromoform and Trihalomethanes, Total, the matrix spike (MS) for analytical batch 860-68379 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

HPLC/IC

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-68456 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, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-68553 and analytical batch 860-68759 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 Hobbs, NM - 03B1417001

Job ID: 880-18993-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-18993-1

Date Collected: 09/08/22 10:35

Matrix: Water

Date Received: 09/08/22 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00258		0.00100	0.000533	mg/L		09/09/22 15:55	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		09/09/22 15:55	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		09/09/22 15:55	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		09/09/22 15:55	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		09/09/22 15:55	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		09/09/22 15:55	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		09/09/22 15:55	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		09/09/22 15:55	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		09/09/22 15:55	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		09/09/22 15:55	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		09/09/22 15:55	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		09/09/22 15:55	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		09/09/22 15:55	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		09/09/22 15:55	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		09/09/22 15:55	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		09/09/22 15:55	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		09/09/22 15:55	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		09/09/22 15:55	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		09/09/22 15:55	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		09/09/22 15:55	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/09/22 15:55	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/09/22 15:55	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		09/09/22 15:55	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		09/09/22 15:55	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		09/09/22 15:55	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		09/09/22 15:55	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		09/09/22 15:55	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		09/09/22 15:55	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		09/09/22 15:55	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		09/09/22 15:55	1
Ethylbenzene	0.00906		0.00100	0.000411	mg/L		09/09/22 15:55	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		09/09/22 15:55	1
Isopropylbenzene	0.00391		0.00100	0.000613	mg/L		09/09/22 15:55	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		09/09/22 15:55	1
m,p-Xylenes	0.0351		0.0100	0.00124	mg/L		09/09/22 15:55	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		09/09/22 15:55	1
Naphthalene	<0.00135	U **	0.0100	0.00135	mg/L		09/09/22 15:55	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		09/09/22 15:55	1
N-Propylbenzene	0.00187		0.00100	0.000498	mg/L		09/09/22 15:55	1
o-Xylene	0.00539		0.00100	0.000551	mg/L		09/09/22 15:55	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		09/09/22 15:55	1
sec-Butylbenzene	0.000783	J	0.00100	0.000468	mg/L		09/09/22 15:55	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		09/09/22 15:55	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		09/09/22 15:55	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		09/09/22 15:55	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		09/09/22 15:55	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		09/09/22 15:55	1
Toluene	0.0193		0.00100	0.000475	mg/L		09/09/22 15:55	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		09/09/22 15:55	1

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Client Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-18993-1

Date Collected: 09/08/22 10:35

Matrix: Water

Date Received: 09/08/22 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/09/22 15:55	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/09/22 15:55	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/09/22 15:55	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/09/22 15:55	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/09/22 15:55	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/09/22 15:55	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/09/22 15:55	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/09/22 15:55	1
1,2,4-Trimethylbenzene	0.00806		0.00100	0.000417 mg/L			09/09/22 15:55	1
1,3,5-Trimethylbenzene	0.00265		0.00100	0.000456 mg/L			09/09/22 15:55	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/09/22 15:55	1
Xylenes, Total	0.0405		0.0100	0.00124 mg/L			09/09/22 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		09/09/22 15:55	1
Dibromofluoromethane (Surr)	103		75 - 131		09/09/22 15:55	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		09/09/22 15:55	1
Toluene-d8 (Surr)	97		80 - 117		09/09/22 15:55	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.973		0.500	0.0711 mg/L			09/09/22 20:31	1
Nitrate as N	0.0972	J	0.100	0.0391 mg/L			09/09/22 20:31	1
Chloride	214		0.500	0.200 mg/L			09/09/22 20:31	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			09/09/22 20:31	1
Fluoride	0.667		0.500	0.100 mg/L			09/09/22 20:31	1
Sulfate	47.0		0.500	0.109 mg/L			09/09/22 20:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	235		10.0	5.76 mg/L		09/10/22 11:00	09/12/22 14:49	50
Magnesium	49.9		0.200	0.0428 mg/L		09/10/22 11:00	09/12/22 14:31	1
Potassium	4.03		0.500	0.0914 mg/L		09/10/22 11:00	09/12/22 14:31	1
Sodium	78.9		0.500	0.152 mg/L		09/10/22 11:00	09/12/22 14:31	1
SiO2	70.0		1.07	0.471 mg/L		09/10/22 11:00	09/12/22 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-7.38			%			09/14/22 10:14	1
Alkalinity	654		4.00	4.00 mg/L			09/10/22 13:59	1
Bicarbonate Alkalinity as CaCO3	654		4.00	4.00 mg/L			09/10/22 13:59	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/10/22 13:59	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			09/10/22 13:59	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			09/10/22 13:59	1
Total Dissolved Solids	1190		10.0	10.0 mg/L			09/09/22 17:02	1
pH	6.4	HF		SU			09/12/22 13:26	1
Temperature	15.8	HF		Degrees C			09/12/22 13:26	1

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Surrogate Summary

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

Job ID: 880-18993-1
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)
880-18902-U-1 MS	Matrix Spike	100	103	91	98
880-18993-1	Levey Well	96	103	97	97
LCS 860-68379/3	Lab Control Sample	100	100	91	98
LCSD 860-68379/4	Lab Control Sample Dup	99	104	90	98
MB 860-68379/10	Method Blank	101	103	96	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-68379/10

Matrix: Water

Analysis Batch: 68379

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/09/22 10:27	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/09/22 10:27	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/09/22 10:27	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/09/22 10:27	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/09/22 10:27	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/09/22 10:27	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/09/22 10:27	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/09/22 10:27	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/09/22 10:27	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/09/22 10:27	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/09/22 10:27	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/09/22 10:27	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/09/22 10:27	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/09/22 10:27	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/09/22 10:27	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/09/22 10:27	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/09/22 10:27	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/09/22 10:27	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/09/22 10:27	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/09/22 10:27	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/09/22 10:27	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/09/22 10:27	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/09/22 10:27	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/09/22 10:27	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/09/22 10:27	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/09/22 10:27	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/09/22 10:27	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/09/22 10:27	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/09/22 10:27	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/09/22 10:27	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/09/22 10:27	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/09/22 10:27	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/09/22 10:27	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/09/22 10:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/09/22 10:27	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/09/22 10:27	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/09/22 10:27	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/09/22 10:27	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/09/22 10:27	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/09/22 10:27	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/09/22 10:27	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/09/22 10:27	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/09/22 10:27	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/09/22 10:27	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/09/22 10:27	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/09/22 10:27	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/09/22 10:27	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/09/22 10:27	1

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-68379/10

Matrix: Water

Analysis Batch: 68379

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	<0.000945	U	0.00100	0.000945 mg/L			09/09/22 10:27	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/09/22 10:27	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/09/22 10:27	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/09/22 10:27	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/09/22 10:27	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/09/22 10:27	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/09/22 10:27	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/09/22 10:27	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/09/22 10:27	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/09/22 10:27	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/09/22 10:27	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/09/22 10:27	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/09/22 10:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		09/09/22 10:27	1
Dibromofluoromethane (Surr)	103		75 - 131		09/09/22 10:27	1
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		09/09/22 10:27	1
Toluene-d8 (Surr)	99		80 - 117		09/09/22 10:27	1

Lab Sample ID: LCS 860-68379/3

Matrix: Water

Analysis Batch: 68379

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	0.04565		mg/L		91	66 - 142
Bromobenzene	0.0500	0.04912		mg/L		98	75 - 125
Bromochloromethane	0.0500	0.04565		mg/L		91	60 - 140
Bromodichloromethane	0.0500	0.04659		mg/L		93	75 - 125
Bromoform	0.0500	0.05083		mg/L		102	75 - 125
Bromomethane	0.0500	0.04785		mg/L		96	60 - 140
2-Butanone	0.250	0.2705		mg/L		108	60 - 140
Carbon tetrachloride	0.0500	0.04284		mg/L		86	62 - 125
Chlorobenzene	0.0500	0.04732		mg/L		95	60 - 133
Chloroethane	0.0500	0.04625		mg/L		92	60 - 140
Chloroform	0.0500	0.04666		mg/L		93	70 - 130
Chloromethane	0.0500	0.04873		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04992		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05117		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04660		mg/L		93	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04648		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.05055		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05836		mg/L		117	59 - 125
1,2-Dibromoethane	0.0500	0.04745		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.05162		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05121		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05111		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04918		mg/L		98	70 - 130

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-68379/3

Matrix: Water

Analysis Batch: 68379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04625		mg/L		93	72 - 125
1,2-Dichloroethane	0.0500	0.04253		mg/L		85	68 - 127
1,1-Dichloroethene	0.0500	0.04248		mg/L		85	59 - 172
1,2-Dichloropropane	0.0500	0.04781		mg/L		96	74 - 125
1,3-Dichloropropane	0.0500	0.04737		mg/L		95	75 - 125
2,2-Dichloropropane	0.0500	0.04582		mg/L		92	75 - 125
1,1-Dichloropropene	0.0500	0.04336		mg/L		87	75 - 125
Ethylbenzene	0.0500	0.04751		mg/L		95	75 - 125
Hexachlorobutadiene	0.0500	0.04815		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04829		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.04151		mg/L		83	75 - 125
m,p-Xylenes	0.0500	0.04649		mg/L		93	75 - 125
MTBE	0.0500	0.04532		mg/L		91	65 - 135
Naphthalene	0.0500	0.06164		mg/L		123	70 - 130
n-Butylbenzene	0.0500	0.05324		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.05058		mg/L		101	75 - 125
o-Xylene	0.0500	0.04779		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05303		mg/L		106	75 - 125
sec-Butylbenzene	0.0500	0.05175		mg/L		103	75 - 125
Styrene	0.0500	0.04963		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.04993		mg/L		100	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04709		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05465		mg/L		109	74 - 125
Tetrachloroethene	0.0500	0.04511		mg/L		90	71 - 125
Toluene	0.0500	0.04543		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04231		mg/L		85	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04707		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05720		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05663		mg/L		113	75 - 135
1,1,1-Trichloroethane	0.0500	0.04232		mg/L		85	75 - 125
1,1,2-Trichloroethane	0.0500	0.04843		mg/L		97	75 - 127
Trichloroethene	0.0500	0.04573		mg/L		91	62 - 137
Trichlorofluoromethane	0.0500	0.04822		mg/L		96	60 - 140
1,2,3-Trichloropropane	0.0500	0.05141		mg/L		103	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05184		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.05087		mg/L		102	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
Toluene-d8 (Surr)	98		80 - 117

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-68379/4

Matrix: Water

Analysis Batch: 68379

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	0.04710		mg/L		94	66 - 142	3	25
Bromobenzene	0.0500	0.04934		mg/L		99	75 - 125	0	25
Bromochloromethane	0.0500	0.04613		mg/L		92	60 - 140	1	25
Bromodichloromethane	0.0500	0.04807		mg/L		96	75 - 125	3	25
Bromoform	0.0500	0.05222		mg/L		104	75 - 125	3	25
Bromomethane	0.0500	0.04821		mg/L		96	60 - 140	1	25
2-Butanone	0.250	0.2718		mg/L		109	60 - 140	0	25
Carbon tetrachloride	0.0500	0.04585		mg/L		92	62 - 125	7	25
Chlorobenzene	0.0500	0.04833		mg/L		97	60 - 133	2	25
Chloroethane	0.0500	0.04825		mg/L		96	60 - 140	4	25
Chloroform	0.0500	0.04779		mg/L		96	70 - 130	2	25
Chloromethane	0.0500	0.05066		mg/L		101	60 - 140	4	25
2-Chlorotoluene	0.0500	0.05164		mg/L		103	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05220		mg/L		104	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04771		mg/L		95	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04738		mg/L		95	74 - 125	2	25
Dibromochloromethane	0.0500	0.05013		mg/L		100	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05883		mg/L		118	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04856		mg/L		97	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05150		mg/L		103	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05241		mg/L		105	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05174		mg/L		103	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05163		mg/L		103	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.04896		mg/L		98	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.04308		mg/L		86	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04602		mg/L		92	59 - 172	8	25
1,2-Dichloropropane	0.0500	0.04832		mg/L		97	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04808		mg/L		96	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04802		mg/L		96	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04683		mg/L		94	75 - 125	8	25
Ethylbenzene	0.0500	0.04884		mg/L		98	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05260		mg/L		105	75 - 125	9	25
Isopropylbenzene	0.0500	0.05073		mg/L		101	75 - 125	5	25
Methylene Chloride	0.0500	0.04274		mg/L		85	75 - 125	3	25
m,p-Xylenes	0.0500	0.04803		mg/L		96	75 - 125	3	25
MTBE	0.0500	0.04660		mg/L		93	65 - 135	3	25
Naphthalene	0.0500	0.06526	*+	mg/L		131	70 - 130	6	25
n-Butylbenzene	0.0500	0.05681		mg/L		114	75 - 125	6	25
N-Propylbenzene	0.0500	0.05291		mg/L		106	75 - 125	5	25
o-Xylene	0.0500	0.04898		mg/L		98	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05536		mg/L		111	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05522		mg/L		110	75 - 125	6	25
Styrene	0.0500	0.05040		mg/L		101	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05288		mg/L		106	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04752		mg/L		95	72 - 125	1	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.05514		mg/L		110	74 - 125	1	25
Tetrachloroethene	0.0500	0.04636		mg/L		93	71 - 125	3	25
Toluene	0.0500	0.04608		mg/L		92	59 - 139	1	25

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-68379/4

Matrix: Water

Analysis Batch: 68379

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	0.04445		mg/L		89	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04780		mg/L		96	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05996		mg/L		120	75 - 137	5	25
1,2,4-Trichlorobenzene	0.0500	0.05918		mg/L		118	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.04508		mg/L		90	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04860		mg/L		97	75 - 127	0	25
Trichloroethene	0.0500	0.04734		mg/L		95	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05201		mg/L		104	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.05387		mg/L		108	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05323		mg/L		106	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05379		mg/L		108	60 - 140	4	25
Vinyl chloride	0.0500	0.05343		mg/L		107	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	90		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-68455/3

Matrix: Water

Analysis Batch: 68455

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			09/09/22 12:56	1
Chloride	<0.200	U	0.500	0.200 mg/L			09/09/22 12:56	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/09/22 12:56	1
Sulfate	<0.109	U	0.500	0.109 mg/L			09/09/22 12:56	1

Lab Sample ID: LCS 860-68455/6

Matrix: Water

Analysis Batch: 68455

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	10.39		mg/L		104	90 - 110
Chloride	10.0	9.705		mg/L		97	90 - 110
Fluoride	10.0	10.37		mg/L		104	90 - 110
Sulfate	10.0	9.877		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-68455/7

Matrix: Water

Analysis Batch: 68455

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	10.42		mg/L		104	90 - 110	0	20
Chloride	10.0	9.732		mg/L		97	90 - 110	0	20
Fluoride	10.0	10.42		mg/L		104	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-68455/7

Matrix: Water

Analysis Batch: 68455

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	9.921		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-68455/5

Matrix: Water

Analysis Batch: 68455

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
Bromide	0.500	0.5725		mg/L		114	50 - 150		
Chloride	0.500	0.5691		mg/L		114	50 - 150		
Fluoride	0.500	0.4813	J	mg/L		96	50 - 150		
Sulfate	0.500	0.5865		mg/L		117	50 - 150		

Lab Sample ID: 880-18993-1 MS

Matrix: Water

Analysis Batch: 68455

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	RPD	RPD Limit
Bromide	0.973		10.0	10.93		mg/L		100	90 - 110		
Chloride	214		10.0	219.4	4	mg/L		54	90 - 110		
Fluoride	0.667		10.0	10.77		mg/L		101	90 - 110		
Sulfate	47.0		10.0	55.73	4	mg/L		87	90 - 110		

Lab Sample ID: 880-18993-1 MSD

Matrix: Water

Analysis Batch: 68455

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.973		10.0	10.97		mg/L		100	90 - 110	0	20
Chloride	214		10.0	219.5	4	mg/L		54	90 - 110	0	20
Fluoride	0.667		10.0	10.88		mg/L		102	90 - 110	1	20
Sulfate	47.0		10.0	55.55	4	mg/L		86	90 - 110	0	20

Lab Sample ID: MB 860-68456/3

Matrix: Water

Analysis Batch: 68456

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			09/09/22 12:56	1
Nitrite as N	0.04275	J	0.100	0.0293 mg/L			09/09/22 12:56	1

Lab Sample ID: LCS 860-68456/6

Matrix: Water

Analysis Batch: 68456

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
Nitrate as N	10.0	9.843		mg/L		98	80 - 120		
Nitrite as N	5.00	5.034		mg/L		101	80 - 120		

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-68456/7

Matrix: Water

Analysis Batch: 68456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N			10.0	9.864		mg/L		99	80 - 120	0	20
Nitrite as N			5.00	5.078		mg/L		102	80 - 120	1	20

Lab Sample ID: LLCS 860-68456/4

Matrix: Water

Analysis Batch: 68456

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	0.1203		mg/L		120	50 - 150	
Nitrite as N	0.100	0.1111		mg/L		111	50 - 150	

Lab Sample ID: 880-18993-1 MS

Matrix: Water

Analysis Batch: 68456

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	
Nitrate as N	0.0972	J	10.0	9.895		mg/L		98	80 - 120	
Nitrite as N	<0.0293	U F1	2.50	3.146	F1	mg/L		126	80 - 120	

Lab Sample ID: 880-18993-1 MSD

Matrix: Water

Analysis Batch: 68456

Client Sample ID: Levey Well

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	0.0972	J	10.0	9.867		mg/L		98	80 - 120	0	15
Nitrite as N	<0.0293	U F1	2.50	3.028	F1	mg/L		121	80 - 120	4	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-68553/1-A

Matrix: Water

Analysis Batch: 68759

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 68553

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115	mg/L	09/10/22 11:00	09/12/22 14:20	1
Magnesium	<0.0428	U	0.200	0.0428	mg/L	09/10/22 11:00	09/12/22 14:20	1
Potassium	<0.0914	U	0.500	0.0914	mg/L	09/10/22 11:00	09/12/22 14:20	1
Sodium	<0.152	U	0.500	0.152	mg/L	09/10/22 11:00	09/12/22 14:20	1
SiO2	<0.471	U	1.07	0.471	mg/L	09/10/22 11:00	09/12/22 14:20	1

Lab Sample ID: LCS 860-68553/2-A

Matrix: Water

Analysis Batch: 68759

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 68553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Calcium	25.0	24.10		mg/L		96	85 - 115	
Magnesium	25.0	23.60		mg/L		94	85 - 115	
Potassium	10.0	9.650		mg/L		97	85 - 115	
Sodium	25.0	24.30		mg/L		97	85 - 115	
SiO2	21.4	21.21		mg/L		99	85 - 115	

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCSD 860-68553/3-A

Matrix: Water

Analysis Batch: 68759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 68553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	25.0	24.20		mg/L		97	85 - 115	0		20
Magnesium	25.0	23.70		mg/L		95	85 - 115	0		20
Potassium	10.0	9.680		mg/L		97	85 - 115	0		20
Sodium	25.0	24.30		mg/L		97	85 - 115	0		20
SiO2	21.4	21.31		mg/L		100	85 - 115	1		20

Lab Sample ID: 880-18993-1 MS

Matrix: Water

Analysis Batch: 68759

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 68553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Calcium	251	E	25.0	275.0	E 4	mg/L		96	70 - 130			
Magnesium	49.9		25.0	75.00		mg/L		100	70 - 130			
Potassium	4.03		10.0	14.90		mg/L		109	70 - 130			
Sodium	78.9		25.0	105.0		mg/L		104	70 - 130			
SiO2	70.0		21.4	93.30		mg/L		109	70 - 130			

Lab Sample ID: 880-18993-1 MSD

Matrix: Water

Analysis Batch: 68759

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 68553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Calcium	251	E	25.0	276.0	E 4	mg/L		100	70 - 130	0		20
Magnesium	49.9		25.0	75.20		mg/L		101	70 - 130	0		20
Potassium	4.03		10.0	15.00		mg/L		110	70 - 130	1		20
Sodium	78.9		25.0	106.0		mg/L		108	70 - 130	1		20
SiO2	70.0		21.4	93.09		mg/L		108	70 - 130	0		20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-68650/4

Matrix: Water

Analysis Batch: 68650

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			09/10/22 13:29	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/10/22 13:29	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/10/22 13:29	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			09/10/22 13:29	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			09/10/22 13:29	1

Lab Sample ID: LCS 860-68650/5

Matrix: Water

Analysis Batch: 68650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Alkalinity	250	248.8		mg/L		100	85 - 115			

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QC Sample Results

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

Job ID: 880-18993-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-68650/6

Matrix: Water

Analysis Batch: 68650

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	245.1		mg/L		98	85 - 115	2	20

Lab Sample ID: 880-18993-1 DU

Matrix: Water

Analysis Batch: 68650

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	654		630.6		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	654		630.6		mg/L		4	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 860-68514/1

Matrix: Water

Analysis Batch: 68514

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			09/09/22 17:02	1

Lab Sample ID: LCS 860-68514/2

Matrix: Water

Analysis Batch: 68514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
Total Dissolved Solids	1000	988.0		mg/L		99	80 - 120	

Lab Sample ID: LCSD 860-68514/3

Matrix: Water

Analysis Batch: 68514

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	993.0		mg/L		99	80 - 120	1	10

Lab Sample ID: 880-18993-1 DU

Matrix: Water

Analysis Batch: 68514

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1190		1281		mg/L		8	10

Eurofins Midland

QC Association Summary

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

Job ID: 880-18993-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 68379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	8260C	
MB 860-68379/10	Method Blank	Total/NA	Water	8260C	
LCS 860-68379/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68379/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 68455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	300.0	
MB 860-68455/3	Method Blank	Total/NA	Water	300.0	
LCS 860-68455/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-68455/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-68455/5	Lab Control Sample	Total/NA	Water	300.0	
880-18993-1 MS	Levey Well	Total/NA	Water	300.0	
880-18993-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 68456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	300.0	
MB 860-68456/3	Method Blank	Total/NA	Water	300.0	
LCS 860-68456/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-68456/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-68456/4	Lab Control Sample	Total/NA	Water	300.0	
880-18993-1 MS	Levey Well	Total/NA	Water	300.0	
880-18993-1 MSD	Levey Well	Total/NA	Water	300.0	

Metals

Prep Batch: 68553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-68553/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-68553/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-68553/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
880-18993-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-18993-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 68759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	68553
880-18993-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	68553
MB 860-68553/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	68553
LCS 860-68553/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	68553
LCSD 860-68553/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	68553
880-18993-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	68553
880-18993-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	68553

Eurofins Midland

QC Association Summary

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

Job ID: 880-18993-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 68514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-68514/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-68514/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-68514/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-18993-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 68650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-68650/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-68650/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-68650/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-18993-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 68696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 68969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18993-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-18993-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-18993-1
Date Collected: 09/08/22 10:35 Matrix: Water
Date Received: 09/08/22 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	68379	NA	EET HOU	09/09/22 15:55
Total/NA	Analysis	300.0		1	68455	RBNS	EET HOU	09/09/22 20:31
Total/NA	Analysis	300.0		1	68456	A1S	EET HOU	09/09/22 20:31
Total Recoverable	Prep	200.7			68553	MD	EET HOU	09/10/22 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	68759	DP	EET HOU	09/12/22 14:31
Total Recoverable	Prep	200.7			68553	MD	EET HOU	09/10/22 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	68759	DP	EET HOU	09/12/22 14:49
Total/NA	Analysis	SM 1030E		1	68969	AA	EET HOU	09/14/22 10:14
Total/NA	Analysis	SM 2320B		1	68650	TL	EET HOU	09/10/22 13:59
Total/NA	Analysis	SM 2540C		1	68514	MCA	EET HOU	09/09/22 17:02
Total/NA	Analysis	SM 4500 H+ B		1	68696	TL	EET HOU	09/12/22 13:26

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

Accreditation/Certification Summary

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

Job ID: 880-18993-1
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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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 Hobbs, NM - 03B1417001

Job ID: 880-18993-1
SDG: Hobbs NM

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

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:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-18993-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18993-1	Levey Well	Water	09/08/22 10:35	09/08/22 15:10

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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)/94-1296
Phoenix AZ (460-355-0900) Atlanta GA (770-445-8800) Tampa FL (813)-
Hobbs NM (575-392-7550)

Chain of Custody

Work Order No: 189992

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:	bjenning@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 ☐ Rush 24 hr							
P.O. Number:	03B1417001	Rush 24 hr							
Sampler's Name:	Shane Diller	Due Date							

SAMPLE RECEIPT			
Temperature (°C):	Temp Blank:	Yes	No
Received Intact:	Yes	No	Thermometer ID
Cooler Custody Seals:	Yes	No	Correction Factor:
Sample Custody Seals:	Yes	No	Total Containers:

Number of Containers

F, Cl, SO₄, B

Ca, K, Mg, Na, Si

Day

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

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions	Cations	pH	Alkalinity	TDS	Sample Comments	
Levey Well	GW	4-8-22	1035	—	7	X	X	X	X	X	X		24hr	
 860-18993 Chain of Custody														

88U-18993 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		
1 		9/18/02					
2		1810					
3							
4							
5							

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-18993-1

SDG Number: Hobbs NM

Login Number: 18993

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: 880-18993-1

SDG Number: Hobbs NM

Login Number: 18993

List Number: 2

Creator: Rubio, Yuri

List Source: Eurofins Houston

List Creation: 09/09/22 01:31 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-18994-1

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:

9/16/2022 7:26:02 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.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: 880-18994-1

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Definitions/Glossary

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

Job ID: 880-18994-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
H	Sample was prepped or analyzed beyond the specified holding time
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.
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.

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)

Definitions/Glossary

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

Job ID: 880-18994-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: South Hobbs - 03B1417002

Job ID: 880-18994-1

Job ID: 880-18994-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-18994-1****Receipt**

The samples were received on 9/8/2022 3:10 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 5.6°C

GC/MS VOA

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-68379 recovered outside control limits for the following analytes: Naphthalene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Due to the high concentration of Bromoform and Trihalomethanes, Total, the matrix spike (MS) for analytical batch 860-68379 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-68592 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified. Note, The continuing calibration verification was within control limits. And the associated samples were not detected (ND).

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-68592 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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_ORGFMS: The method blank contained nitrite 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.

Client Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-18994-1

Date Collected: 09/08/22 11:10

Matrix: Water

Date Received: 09/08/22 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L		09/09/22 14:53	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		09/09/22 14:53	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		09/09/22 14:53	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		09/09/22 14:53	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		09/09/22 14:53	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		09/09/22 14:53	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		09/09/22 14:53	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		09/09/22 14:53	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		09/09/22 14:53	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		09/09/22 14:53	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		09/09/22 14:53	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		09/09/22 14:53	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		09/09/22 14:53	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		09/09/22 14:53	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		09/09/22 14:53	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		09/09/22 14:53	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		09/09/22 14:53	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		09/09/22 14:53	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		09/09/22 14:53	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		09/09/22 14:53	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/09/22 14:53	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/09/22 14:53	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		09/09/22 14:53	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		09/09/22 14:53	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		09/09/22 14:53	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		09/09/22 14:53	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		09/09/22 14:53	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		09/09/22 14:53	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		09/09/22 14:53	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		09/09/22 14:53	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		09/09/22 14:53	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		09/09/22 14:53	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		09/09/22 14:53	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		09/09/22 14:53	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		09/09/22 14:53	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		09/09/22 14:53	1
Naphthalene	<0.00135	U **	0.0100	0.00135	mg/L		09/09/22 14:53	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		09/09/22 14:53	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		09/09/22 14:53	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		09/09/22 14:53	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		09/09/22 14:53	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		09/09/22 14:53	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		09/09/22 14:53	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		09/09/22 14:53	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		09/09/22 14:53	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		09/09/22 14:53	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		09/09/22 14:53	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		09/09/22 14:53	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		09/09/22 14:53	1

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Client Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-18994-1

Date Collected: 09/08/22 11:10

Matrix: Water

Date Received: 09/08/22 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/09/22 14:53	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/09/22 14:53	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/09/22 14:53	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/09/22 14:53	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/09/22 14:53	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/09/22 14:53	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/09/22 14:53	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/09/22 14:53	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/09/22 14:53	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/09/22 14:53	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/09/22 14:53	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/09/22 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		09/09/22 14:53	1
Dibromofluoromethane (Surr)	103		75 - 131		09/09/22 14:53	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		09/09/22 14:53	1
Toluene-d8 (Surr)	101		80 - 117		09/09/22 14:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.932	U	4.72	0.932 mg/L			09/12/22 18:16	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	<0.932	U	4.72	0.932 mg/L		09/12/22 12:28	09/12/22 15:16	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932 mg/L		09/12/22 12:28	09/12/22 15:16	1
Oil Range Organics (Over C28-C36)	<0.900	U	4.72	0.900 mg/L		09/12/22 12:28	09/12/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 135	09/12/22 12:28	09/12/22 15:16	1
o-Terphenyl	97		70 - 135	09/12/22 12:28	09/12/22 15:16	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.0		0.500	0.200 mg/L			09/10/22 18:22	1
Nitrate as N	<0.0391	U H	0.100	0.0391 mg/L			09/10/22 18:22	1
Fluoride	0.775		0.500	0.100 mg/L			09/10/22 18:22	1
Nitrite as N	0.117	H B	0.100	0.0293 mg/L			09/10/22 18:22	1
Sulfate	32.4		0.500	0.109 mg/L			09/10/22 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	267		4.00	4.00 mg/L			09/10/22 14:18	1
Bicarbonate Alkalinity as CaCO3	267		4.00	4.00 mg/L			09/10/22 14:18	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/10/22 14:18	1
Carbon dioxide	289			mg/L			09/16/22 16:27	1
Carbon Dioxide, Free	53.4			mg/L			09/16/22 16:27	1
pH	7.0	HF		SU			09/12/22 13:23	1

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Client Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-18994-1

Date Collected: 09/08/22 11:10

Matrix: Water

Date Received: 09/08/22 15:10

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	15.3	HF		Degrees C			09/12/22 13:23	1
Sulfide	1.00	J	5.00	0.495 mg/L			09/12/22 16:09	1

Client Sample ID: MW-2

Lab Sample ID: 880-18994-2

Date Collected: 09/08/22 12:20

Matrix: Water

Date Received: 09/08/22 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0204		0.00100	0.000533 mg/L			09/12/22 11:58	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/12/22 11:58	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/12/22 11:58	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/12/22 11:58	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/12/22 11:58	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/12/22 11:58	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/12/22 11:58	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/12/22 11:58	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/12/22 11:58	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/12/22 11:58	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/12/22 11:58	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/12/22 11:58	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/12/22 11:58	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/12/22 11:58	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/12/22 11:58	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/12/22 11:58	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/12/22 11:58	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/12/22 11:58	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/12/22 11:58	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/12/22 11:58	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/12/22 11:58	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/12/22 11:58	1
Dichlorodifluoromethane	<0.000919	U *	0.00100	0.000919 mg/L			09/12/22 11:58	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/12/22 11:58	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/12/22 11:58	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/12/22 11:58	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/12/22 11:58	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/12/22 11:58	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/12/22 11:58	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/12/22 11:58	1
Ethylbenzene	0.0324		0.00100	0.000411 mg/L			09/12/22 11:58	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/12/22 11:58	1
Isopropylbenzene	0.0135		0.00100	0.000613 mg/L			09/12/22 11:58	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/12/22 11:58	1
m,p-Xylenes	0.141		0.0100	0.00124 mg/L			09/12/22 11:58	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/12/22 11:58	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/12/22 11:58	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/12/22 11:58	1
N-Propylbenzene	0.00475		0.00100	0.000498 mg/L			09/12/22 11:58	1
o-Xylene	0.0154		0.00100	0.000551 mg/L			09/12/22 11:58	1
p-Cymene (p-Isopropyltoluene)	0.00107		0.00100	0.000919 mg/L			09/12/22 11:58	1

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Client Sample Results

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

Job ID: 880-18994-1

Client Sample ID: MW-2

Lab Sample ID: 880-18994-2

Date Collected: 09/08/22 12:20

Matrix: Water

Date Received: 09/08/22 15:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00156		0.00100	0.000468 mg/L			09/12/22 11:58	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/12/22 11:58	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/12/22 11:58	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/12/22 11:58	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/12/22 11:58	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/12/22 11:58	1
Toluene	0.00308		0.00100	0.000475 mg/L			09/12/22 11:58	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/12/22 11:58	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/12/22 11:58	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/12/22 11:58	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/12/22 11:58	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/12/22 11:58	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/12/22 11:58	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/12/22 11:58	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/12/22 11:58	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/12/22 11:58	1
1,2,4-Trimethylbenzene	0.0434		0.00100	0.000417 mg/L			09/12/22 11:58	1
1,3,5-Trimethylbenzene	0.0116		0.00100	0.000456 mg/L			09/12/22 11:58	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/12/22 11:58	1
Xylenes, Total	0.156		0.0100	0.00124 mg/L			09/12/22 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		09/12/22 11:58	1
4-Bromofluorobenzene (Surr)	99		74 - 124		09/12/22 12:18	5
Dibromofluoromethane (Surr)	100		75 - 131		09/12/22 11:58	1
Dibromofluoromethane (Surr)	103		75 - 131		09/12/22 12:18	5
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		09/12/22 11:58	1
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		09/12/22 12:18	5
Toluene-d8 (Surr)	103		80 - 117		09/12/22 11:58	1
Toluene-d8 (Surr)	99		80 - 117		09/12/22 12:18	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.78	J	4.62	0.912 mg/L			09/12/22 18:16	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	1.78	J	4.62	0.912 mg/L		09/12/22 12:28	09/12/22 15:35	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912 mg/L		09/12/22 12:28	09/12/22 15:35	1
Oil Range Organics (Over C28-C36)	<0.880	U	4.62	0.880 mg/L		09/12/22 12:28	09/12/22 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 135	09/12/22 12:28	09/12/22 15:35	1
o-Terphenyl	133		70 - 135	09/12/22 12:28	09/12/22 15:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		0.500	0.200 mg/L			09/10/22 18:57	1
Nitrate as N	0.391	H	0.100	0.0391 mg/L			09/10/22 18:57	1

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Client Sample Results

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

Job ID: 880-18994-1

Client Sample ID: MW-2
Date Collected: 09/08/22 12:20
Date Received: 09/08/22 15:10

Lab Sample ID: 880-18994-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.100	U	0.500	0.100	mg/L			09/10/22 18:57	1
Nitrite as N	0.364	H B	0.100	0.0293	mg/L			09/10/22 18:57	1
Sulfate	110		0.500	0.109	mg/L			09/10/22 18:57	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00	mg/L			09/10/22 14:35	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00	mg/L			09/10/22 14:35	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			09/10/22 14:35	1
Carbon dioxide	2840				mg/L			09/16/22 16:27	1
Carbon Dioxide, Free	1670				mg/L			09/16/22 16:27	1
pH	6.2	HF			SU			09/12/22 13:24	1
Temperature	15.5	HF			Degrees C			09/12/22 13:24	1
Sulfide	<0.495	U	5.00	0.495	mg/L			09/12/22 16:09	1

Surrogate Summary

Client: Ensolum

Job ID: 880-18994-1

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)
860-32880-C-6 MS	Matrix Spike	99	103	90	97
880-18902-U-1 MS	Matrix Spike	100	103	91	98
880-18994-1	MW-1	100	103	97	101
880-18994-2	MW-2	101	100	95	103
880-18994-2	MW-2	99	103	95	99
LCS 860-68379/3	Lab Control Sample	100	100	91	98
LCS 860-68592/3	Lab Control Sample	99	102	92	97
LCSD 860-68379/4	Lab Control Sample Dup	99	104	90	98
LCSD 860-68592/4	Lab Control Sample Dup	100	103	90	97
MB 860-68379/10	Method Blank	101	103	96	99
MB 860-68592/9	Method Blank	98	103	97	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)
880-18994-1	MW-1	84	97
880-18994-2	MW-2	112	133
LCS 860-68672/2-A	Lab Control Sample	97	80
LCSD 860-68672/3-A	Lab Control Sample Dup	102	83
MB 860-68672/1-A	Method Blank	82	92
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-68379/10

Matrix: Water

Analysis Batch: 68379

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/09/22 10:27	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/09/22 10:27	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/09/22 10:27	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/09/22 10:27	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/09/22 10:27	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/09/22 10:27	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/09/22 10:27	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/09/22 10:27	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/09/22 10:27	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/09/22 10:27	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/09/22 10:27	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/09/22 10:27	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/09/22 10:27	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/09/22 10:27	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/09/22 10:27	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/09/22 10:27	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/09/22 10:27	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/09/22 10:27	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/09/22 10:27	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/09/22 10:27	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/09/22 10:27	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/09/22 10:27	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/09/22 10:27	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/09/22 10:27	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/09/22 10:27	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/09/22 10:27	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/09/22 10:27	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/09/22 10:27	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/09/22 10:27	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/09/22 10:27	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/09/22 10:27	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/09/22 10:27	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/09/22 10:27	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/09/22 10:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/09/22 10:27	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/09/22 10:27	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/09/22 10:27	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/09/22 10:27	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/09/22 10:27	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/09/22 10:27	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/09/22 10:27	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/09/22 10:27	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/09/22 10:27	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/09/22 10:27	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/09/22 10:27	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/09/22 10:27	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/09/22 10:27	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/09/22 10:27	1

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-68379/10

Matrix: Water

Analysis Batch: 68379

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	<0.000945	U	0.00100	0.000945 mg/L			09/09/22 10:27	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/09/22 10:27	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/09/22 10:27	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/09/22 10:27	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/09/22 10:27	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/09/22 10:27	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/09/22 10:27	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/09/22 10:27	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/09/22 10:27	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/09/22 10:27	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/09/22 10:27	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/09/22 10:27	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/09/22 10:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		09/09/22 10:27	1
Dibromofluoromethane (Surr)	103		75 - 131		09/09/22 10:27	1
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		09/09/22 10:27	1
Toluene-d8 (Surr)	99		80 - 117		09/09/22 10:27	1

Lab Sample ID: LCS 860-68379/3

Matrix: Water

Analysis Batch: 68379

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	0.04565		mg/L		91	66 - 142
Bromobenzene	0.0500	0.04912		mg/L		98	75 - 125
Bromochloromethane	0.0500	0.04565		mg/L		91	60 - 140
Bromodichloromethane	0.0500	0.04659		mg/L		93	75 - 125
Bromoform	0.0500	0.05083		mg/L		102	75 - 125
Bromomethane	0.0500	0.04785		mg/L		96	60 - 140
2-Butanone	0.250	0.2705		mg/L		108	60 - 140
Carbon tetrachloride	0.0500	0.04284		mg/L		86	62 - 125
Chlorobenzene	0.0500	0.04732		mg/L		95	60 - 133
Chloroethane	0.0500	0.04625		mg/L		92	60 - 140
Chloroform	0.0500	0.04666		mg/L		93	70 - 130
Chloromethane	0.0500	0.04873		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04992		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05117		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04660		mg/L		93	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04648		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.05055		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05836		mg/L		117	59 - 125
1,2-Dibromoethane	0.0500	0.04745		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.05162		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05121		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05111		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.04918		mg/L		98	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-68379/3

Matrix: Water

Analysis Batch: 68379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04625		mg/L		93	72 - 125
1,2-Dichloroethane	0.0500	0.04253		mg/L		85	68 - 127
1,1-Dichloroethene	0.0500	0.04248		mg/L		85	59 - 172
1,2-Dichloropropane	0.0500	0.04781		mg/L		96	74 - 125
1,3-Dichloropropane	0.0500	0.04737		mg/L		95	75 - 125
2,2-Dichloropropane	0.0500	0.04582		mg/L		92	75 - 125
1,1-Dichloropropene	0.0500	0.04336		mg/L		87	75 - 125
Ethylbenzene	0.0500	0.04751		mg/L		95	75 - 125
Hexachlorobutadiene	0.0500	0.04815		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04829		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.04151		mg/L		83	75 - 125
m,p-Xylenes	0.0500	0.04649		mg/L		93	75 - 125
MTBE	0.0500	0.04532		mg/L		91	65 - 135
Naphthalene	0.0500	0.06164		mg/L		123	70 - 130
n-Butylbenzene	0.0500	0.05324		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.05058		mg/L		101	75 - 125
o-Xylene	0.0500	0.04779		mg/L		96	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05303		mg/L		106	75 - 125
sec-Butylbenzene	0.0500	0.05175		mg/L		103	75 - 125
Styrene	0.0500	0.04963		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.04993		mg/L		100	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04709		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05465		mg/L		109	74 - 125
Tetrachloroethene	0.0500	0.04511		mg/L		90	71 - 125
Toluene	0.0500	0.04543		mg/L		91	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04231		mg/L		85	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04707		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05720		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05663		mg/L		113	75 - 135
1,1,1-Trichloroethane	0.0500	0.04232		mg/L		85	75 - 125
1,1,2-Trichloroethane	0.0500	0.04843		mg/L		97	75 - 127
Trichloroethene	0.0500	0.04573		mg/L		91	62 - 137
Trichlorofluoromethane	0.0500	0.04822		mg/L		96	60 - 140
1,2,3-Trichloropropane	0.0500	0.05141		mg/L		103	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05184		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.05087		mg/L		102	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-68379/4

Matrix: Water

Analysis Batch: 68379

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	0.04710		mg/L		94	66 - 142	3	25
Bromobenzene	0.0500	0.04934		mg/L		99	75 - 125	0	25
Bromochloromethane	0.0500	0.04613		mg/L		92	60 - 140	1	25
Bromodichloromethane	0.0500	0.04807		mg/L		96	75 - 125	3	25
Bromoform	0.0500	0.05222		mg/L		104	75 - 125	3	25
Bromomethane	0.0500	0.04821		mg/L		96	60 - 140	1	25
2-Butanone	0.250	0.2718		mg/L		109	60 - 140	0	25
Carbon tetrachloride	0.0500	0.04585		mg/L		92	62 - 125	7	25
Chlorobenzene	0.0500	0.04833		mg/L		97	60 - 133	2	25
Chloroethane	0.0500	0.04825		mg/L		96	60 - 140	4	25
Chloroform	0.0500	0.04779		mg/L		96	70 - 130	2	25
Chloromethane	0.0500	0.05066		mg/L		101	60 - 140	4	25
2-Chlorotoluene	0.0500	0.05164		mg/L		103	73 - 125	3	25
4-Chlorotoluene	0.0500	0.05220		mg/L		104	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04771		mg/L		95	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04738		mg/L		95	74 - 125	2	25
Dibromochloromethane	0.0500	0.05013		mg/L		100	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05883		mg/L		118	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04856		mg/L		97	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05150		mg/L		103	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05241		mg/L		105	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.05174		mg/L		103	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05163		mg/L		103	70 - 130	5	25
1,1-Dichloroethane	0.0500	0.04896		mg/L		98	72 - 125	6	25
1,2-Dichloroethane	0.0500	0.04308		mg/L		86	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04602		mg/L		92	59 - 172	8	25
1,2-Dichloropropane	0.0500	0.04832		mg/L		97	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04808		mg/L		96	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04802		mg/L		96	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04683		mg/L		94	75 - 125	8	25
Ethylbenzene	0.0500	0.04884		mg/L		98	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05260		mg/L		105	75 - 125	9	25
Isopropylbenzene	0.0500	0.05073		mg/L		101	75 - 125	5	25
Methylene Chloride	0.0500	0.04274		mg/L		85	75 - 125	3	25
m,p-Xylenes	0.0500	0.04803		mg/L		96	75 - 125	3	25
MTBE	0.0500	0.04660		mg/L		93	65 - 135	3	25
Naphthalene	0.0500	0.06526	*+	mg/L		131	70 - 130	6	25
n-Butylbenzene	0.0500	0.05681		mg/L		114	75 - 125	6	25
N-Propylbenzene	0.0500	0.05291		mg/L		106	75 - 125	5	25
o-Xylene	0.0500	0.04898		mg/L		98	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05536		mg/L		111	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05522		mg/L		110	75 - 125	6	25
Styrene	0.0500	0.05040		mg/L		101	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05288		mg/L		106	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04752		mg/L		95	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05514		mg/L		110	74 - 125	1	25
Tetrachloroethene	0.0500	0.04636		mg/L		93	71 - 125	3	25
Toluene	0.0500	0.04608		mg/L		92	59 - 139	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-68379/4

Matrix: Water

Analysis Batch: 68379

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	0.04445		mg/L		89	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04780		mg/L		96	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05996		mg/L		120	75 - 137	5	25
1,2,4-Trichlorobenzene	0.0500	0.05918		mg/L		118	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.04508		mg/L		90	75 - 125	6	25
1,1,2-Trichloroethane	0.0500	0.04860		mg/L		97	75 - 127	0	25
Trichloroethene	0.0500	0.04734		mg/L		95	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05201		mg/L		104	60 - 140	8	25
1,2,3-Trichloropropane	0.0500	0.05387		mg/L		108	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05323		mg/L		106	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05379		mg/L		108	60 - 140	4	25
Vinyl chloride	0.0500	0.05343		mg/L		107	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	90		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Lab Sample ID: MB 860-68592/9

Matrix: Water

Analysis Batch: 68592

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L		09/12/22 09:55	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		09/12/22 09:55	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		09/12/22 09:55	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		09/12/22 09:55	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		09/12/22 09:55	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		09/12/22 09:55	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		09/12/22 09:55	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		09/12/22 09:55	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		09/12/22 09:55	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		09/12/22 09:55	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		09/12/22 09:55	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		09/12/22 09:55	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		09/12/22 09:55	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		09/12/22 09:55	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		09/12/22 09:55	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		09/12/22 09:55	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		09/12/22 09:55	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		09/12/22 09:55	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		09/12/22 09:55	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		09/12/22 09:55	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/12/22 09:55	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/12/22 09:55	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		09/12/22 09:55	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		09/12/22 09:55	1

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-68592/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68592

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		09/12/22 09:55	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		09/12/22 09:55	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		09/12/22 09:55	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		09/12/22 09:55	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		09/12/22 09:55	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		09/12/22 09:55	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		09/12/22 09:55	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		09/12/22 09:55	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		09/12/22 09:55	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		09/12/22 09:55	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		09/12/22 09:55	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		09/12/22 09:55	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		09/12/22 09:55	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		09/12/22 09:55	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		09/12/22 09:55	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		09/12/22 09:55	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		09/12/22 09:55	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		09/12/22 09:55	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		09/12/22 09:55	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		09/12/22 09:55	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		09/12/22 09:55	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		09/12/22 09:55	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		09/12/22 09:55	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		09/12/22 09:55	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		09/12/22 09:55	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		09/12/22 09:55	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L		09/12/22 09:55	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		09/12/22 09:55	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L		09/12/22 09:55	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L		09/12/22 09:55	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L		09/12/22 09:55	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L		09/12/22 09:55	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L		09/12/22 09:55	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		09/12/22 09:55	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456	mg/L		09/12/22 09:55	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L		09/12/22 09:55	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		09/12/22 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		09/12/22 09:55	1
Dibromofluoromethane (Surr)	103		75 - 131		09/12/22 09:55	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		09/12/22 09:55	1
Toluene-d8 (Surr)	100		80 - 117		09/12/22 09:55	1

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-68592/3

Matrix: Water

Analysis Batch: 68592

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	0.04396		mg/L		88	66 - 142
Bromobenzene	0.0500	0.04448		mg/L		89	75 - 125
Bromochloromethane	0.0500	0.04445		mg/L		89	60 - 140
Bromodichloromethane	0.0500	0.04411		mg/L		88	75 - 125
Bromoform	0.0500	0.04831		mg/L		97	75 - 125
Bromomethane	0.0500	0.04239		mg/L		85	60 - 140
2-Butanone	0.250	0.2739		mg/L		110	60 - 140
Carbon tetrachloride	0.0500	0.04212		mg/L		84	62 - 125
Chlorobenzene	0.0500	0.04381		mg/L		88	60 - 133
Chloroethane	0.0500	0.04314		mg/L		86	60 - 140
Chloroform	0.0500	0.04306		mg/L		86	70 - 130
Chloromethane	0.0500	0.03832		mg/L		77	60 - 140
2-Chlorotoluene	0.0500	0.04520		mg/L		90	73 - 125
4-Chlorotoluene	0.0500	0.04544		mg/L		91	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04498		mg/L		90	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04477		mg/L		90	74 - 125
Dibromochloromethane	0.0500	0.04609		mg/L		92	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05252		mg/L		105	59 - 125
1,2-Dibromoethane	0.0500	0.04623		mg/L		92	73 - 125
1,2-Dichlorobenzene	0.0500	0.04554		mg/L		91	75 - 125
1,3-Dichlorobenzene	0.0500	0.04486		mg/L		90	75 - 125
1,4-Dichlorobenzene	0.0500	0.04534		mg/L		91	75 - 125
Dichlorodifluoromethane	0.0500	0.03035	*	mg/L		61	70 - 130
1,1-Dichloroethane	0.0500	0.04445		mg/L		89	72 - 125
1,2-Dichloroethane	0.0500	0.04088		mg/L		82	68 - 127
1,1-Dichloroethene	0.0500	0.04279		mg/L		86	59 - 172
1,2-Dichloropropane	0.0500	0.04495		mg/L		90	74 - 125
1,3-Dichloropropane	0.0500	0.04453		mg/L		89	75 - 125
2,2-Dichloropropane	0.0500	0.04450		mg/L		89	75 - 125
1,1-Dichloropropene	0.0500	0.04325		mg/L		87	75 - 125
Ethylbenzene	0.0500	0.04444		mg/L		89	75 - 125
Hexachlorobutadiene	0.0500	0.04281		mg/L		86	75 - 125
Isopropylbenzene	0.0500	0.04419		mg/L		88	75 - 125
Methylene Chloride	0.0500	0.04190		mg/L		84	75 - 125
m,p-Xylenes	0.0500	0.04340		mg/L		87	75 - 125
MTBE	0.0500	0.04220		mg/L		84	65 - 135
Naphthalene	0.0500	0.05568		mg/L		111	70 - 130
n-Butylbenzene	0.0500	0.04659		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04562		mg/L		91	75 - 125
o-Xylene	0.0500	0.04401		mg/L		88	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04665		mg/L		93	75 - 125
sec-Butylbenzene	0.0500	0.04573		mg/L		91	75 - 125
Styrene	0.0500	0.04513		mg/L		90	75 - 125
tert-Butylbenzene	0.0500	0.04428		mg/L		89	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04306		mg/L		86	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04674		mg/L		93	74 - 125
Tetrachloroethene	0.0500	0.04356		mg/L		87	71 - 125
Toluene	0.0500	0.04317		mg/L		86	59 - 139

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-68592/3

Matrix: Water

Analysis Batch: 68592

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	0.04396		mg/L		88	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04508		mg/L		90	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05132		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04978		mg/L		100	75 - 135
1,1,1-Trichloroethane	0.0500	0.04048		mg/L		81	75 - 125
1,1,2-Trichloroethane	0.0500	0.04490		mg/L		90	75 - 127
Trichloroethene	0.0500	0.04454		mg/L		89	62 - 137
Trichlorofluoromethane	0.0500	0.04566		mg/L		91	60 - 140
1,2,3-Trichloropropane	0.0500	0.04783		mg/L		96	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04582		mg/L		92	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04650		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04371		mg/L		87	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Lab Sample ID: LCSD 860-68592/4

Matrix: Water

Analysis Batch: 68592

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	0.04271		mg/L		85	66 - 142	3	25
Bromobenzene	0.0500	0.04449		mg/L		89	75 - 125	0	25
Bromochloromethane	0.0500	0.04384		mg/L		88	60 - 140	1	25
Bromodichloromethane	0.0500	0.04174		mg/L		83	75 - 125	6	25
Bromoform	0.0500	0.04666		mg/L		93	75 - 125	3	25
Bromomethane	0.0500	0.04105		mg/L		82	60 - 140	3	25
2-Butanone	0.250	0.2620		mg/L		105	60 - 140	4	25
Carbon tetrachloride	0.0500	0.04155		mg/L		83	62 - 125	1	25
Chlorobenzene	0.0500	0.04262		mg/L		85	60 - 133	3	25
Chloroethane	0.0500	0.04279		mg/L		86	60 - 140	1	25
Chloroform	0.0500	0.04209		mg/L		84	70 - 130	2	25
Chloromethane	0.0500	0.03840		mg/L		77	60 - 140	0	25
2-Chlorotoluene	0.0500	0.04575		mg/L		91	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04618		mg/L		92	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.04346		mg/L		87	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.04297		mg/L		86	74 - 125	4	25
Dibromochloromethane	0.0500	0.04495		mg/L		90	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05323		mg/L		106	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04470		mg/L		89	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.04517		mg/L		90	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04632		mg/L		93	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04559		mg/L		91	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03091	*-	mg/L		62	70 - 130	2	25
1,1-Dichloroethane	0.0500	0.04380		mg/L		88	72 - 125	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-68592/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68592

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	0.0500	0.03973		mg/L		79	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04367		mg/L		87	59 - 172	2	25
1,2-Dichloropropane	0.0500	0.04342		mg/L		87	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04309		mg/L		86	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.04410		mg/L		88	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04377		mg/L		88	75 - 125	1	25
Ethylbenzene	0.0500	0.04381		mg/L		88	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.04464		mg/L		89	75 - 125	4	25
Isopropylbenzene	0.0500	0.04394		mg/L		88	75 - 125	1	25
Methylene Chloride	0.0500	0.04133		mg/L		83	75 - 125	1	25
m,p-Xylenes	0.0500	0.04325		mg/L		87	75 - 125	0	25
MTBE	0.0500	0.04086		mg/L		82	65 - 135	3	25
Naphthalene	0.0500	0.05659		mg/L		113	70 - 130	2	25
n-Butylbenzene	0.0500	0.04983		mg/L		100	75 - 125	7	25
N-Propylbenzene	0.0500	0.04751		mg/L		95	75 - 125	4	25
o-Xylene	0.0500	0.04302		mg/L		86	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04846		mg/L		97	75 - 125	4	25
sec-Butylbenzene	0.0500	0.04790		mg/L		96	75 - 125	5	25
Styrene	0.0500	0.04414		mg/L		88	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04636		mg/L		93	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04147		mg/L		83	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04774		mg/L		95	74 - 125	2	25
Tetrachloroethene	0.0500	0.04409		mg/L		88	71 - 125	1	25
Toluene	0.0500	0.04230		mg/L		85	59 - 139	2	25
trans-1,2-Dichloroethene	0.0500	0.04341		mg/L		87	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.04317		mg/L		86	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05299		mg/L		106	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.05208		mg/L		104	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.04106		mg/L		82	75 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.04293		mg/L		86	75 - 127	4	25
Trichloroethene	0.0500	0.04360		mg/L		87	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.04531		mg/L		91	60 - 140	1	25
1,2,3-Trichloropropane	0.0500	0.04763		mg/L		95	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04690		mg/L		94	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04767		mg/L		95	60 - 140	2	25
Vinyl chloride	0.0500	0.04365		mg/L		87	60 - 140	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
1,2-Dichloroethane-d4 (Surr)	90		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-68672/1-A

Matrix: Water

Analysis Batch: 68684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68672

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		09/12/22 12:28	09/12/22 13:38	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		09/12/22 12:28	09/12/22 13:38	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		09/12/22 12:28	09/12/22 13:38	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135			09/12/22 12:28	09/12/22 13:38	1
o-Terphenyl	92		70 - 135			09/12/22 12:28	09/12/22 13:38	1

Lab Sample ID: LCS 860-68672/2-A

Matrix: Water

Analysis Batch: 68684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	89.15		mg/L		89	70 - 135
Diesel Range Organics (Over C10-C28)	100	85.50		mg/L		85	70 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 135				
o-Terphenyl	80		70 - 135				

Lab Sample ID: LCSD 860-68672/3-A

Matrix: Water

Analysis Batch: 68684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68672

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	98.73		mg/L		99	70 - 135	10	35
Diesel Range Organics (Over C10-C28)	100	93.27		mg/L		93	70 - 135	9	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 135						
o-Terphenyl	83		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-68564/3

Matrix: Water

Analysis Batch: 68564

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			09/10/22 15:25	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/10/22 15:25	1
Sulfate	<0.109	U	0.500	0.109 mg/L			09/10/22 15:25	1

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QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-68564/11

Matrix: Water

Analysis Batch: 68564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Chloride	10.0	10.08		mg/L		101	90 - 110	
Fluoride	10.0	10.69		mg/L		107	90 - 110	
Sulfate	10.0	10.07		mg/L		101	90 - 110	

Lab Sample ID: LCSD 860-68564/12

Matrix: Water

Analysis Batch: 68564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		
Chloride	10.0	9.849		mg/L		98	90 - 110	2	20
Fluoride	10.0	10.48		mg/L		105	90 - 110	2	20
Sulfate	10.0	9.879		mg/L		99	90 - 110	2	20

Lab Sample ID: LLCS 860-68564/10

Matrix: Water

Analysis Batch: 68564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Chloride	0.500	0.5737		mg/L		115	50 - 150	
Fluoride	0.500	0.4868	J	mg/L		97	50 - 150	
Sulfate	0.500	0.5851		mg/L		117	50 - 150	

Lab Sample ID: 880-18994-1 MS

Matrix: Water

Analysis Batch: 68564

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	
									Limits	
Chloride	77.0		10.0	86.66	4	mg/L		97	90 - 110	
Fluoride	0.775		10.0	10.96		mg/L		102	90 - 110	
Sulfate	32.4		10.0	42.40		mg/L		100	90 - 110	

Lab Sample ID: 880-18994-1 MSD

Matrix: Water

Analysis Batch: 68564

Client Sample ID: MW-1

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	77.0		10.0	86.76	4	mg/L		98	90 - 110	0	20
Fluoride	0.775		10.0	11.00		mg/L		102	90 - 110	0	20
Sulfate	32.4		10.0	42.43		mg/L		101	90 - 110	0	20

Lab Sample ID: 880-18994-2 MS

Matrix: Water

Analysis Batch: 68564

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	
									Limits	
Chloride	111		10.0	119.4	4	mg/L		81	90 - 110	
Fluoride	<0.100	U	10.0	9.490		mg/L		95	90 - 110	
Sulfate	110		10.0	118.5	4	mg/L		88	90 - 110	

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18994-2 MSD

Matrix: Water

Analysis Batch: 68564

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	111		10.0	119.6	4	mg/L		83	90 - 110	0	20
Fluoride	<0.100	U	10.0	9.544		mg/L		95	90 - 110	1	20
Sulfate	110		10.0	118.7	4	mg/L		90	90 - 110	0	20

Lab Sample ID: MB 860-68565/3

Matrix: Water

Analysis Batch: 68565

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			09/10/22 15:25	1
Nitrite as N	0.04037	J	0.100	0.0293	mg/L			09/10/22 15:25	1

Lab Sample ID: LCS 860-68565/11

Matrix: Water

Analysis Batch: 68565

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	10.24		mg/L		102	80 - 120		
Nitrite as N			5.00	5.149		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-68565/12

Matrix: Water

Analysis Batch: 68565

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	10.01		mg/L		100	80 - 120	2	20
Nitrite as N			5.00	5.067		mg/L		101	80 - 120	2	20

Lab Sample ID: LLCS 860-68565/9

Matrix: Water

Analysis Batch: 68565

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	0.1225		mg/L		122	50 - 150		
Nitrite as N			0.100	0.1089		mg/L		109	50 - 150		

Lab Sample ID: 880-18994-1 MS

Matrix: Water

Analysis Batch: 68565

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	<0.0391	U H	10.0	9.802		mg/L		98	80 - 120		
Nitrite as N	0.117	H B	2.50	2.165		mg/L		82	80 - 120		

Lab Sample ID: 880-18994-1 MSD

Matrix: Water

Analysis Batch: 68565

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	<0.0391	U H	10.0	9.794		mg/L		98	80 - 120	0	15

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18994-1 MSD

Matrix: Water

Analysis Batch: 68565

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
Nitrite as N	0.117	H B	2.50	2.161		mg/L		82	80 - 120	0	15

Lab Sample ID: 880-18994-2 MS

Matrix: Water

Analysis Batch: 68565

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	RPD	RPD Limit
Nitrate as N	0.391	H	10.0	10.04		mg/L		96	80 - 120		
Nitrite as N	0.364	H B	2.50	2.437		mg/L		83	80 - 120		

Lab Sample ID: 880-18994-2 MSD

Matrix: Water

Analysis Batch: 68565

Client Sample ID: MW-2

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	0.391	H	10.0	10.07		mg/L		97	80 - 120	0	15
Nitrite as N	0.364	H B	2.50	2.425		mg/L		82	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-68650/4

Matrix: Water

Analysis Batch: 68650

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			09/10/22 13:29	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/10/22 13:29	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/10/22 13:29	1

Lab Sample ID: LCS 860-68650/5

Matrix: Water

Analysis Batch: 68650

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
Alkalinity	250	248.8		mg/L		100	85 - 115		

Lab Sample ID: LCSD 860-68650/6

Matrix: Water

Analysis Batch: 68650

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	245.1		mg/L		98	85 - 115	2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 860-68720/2

Matrix: Water

Analysis Batch: 68720

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
Sulfide	50.0	46.20		mg/L		92	80 - 120		

Eurofins Midland

QC Sample Results

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

Job ID: 880-18994-1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCSD 860-68720/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 68720											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			50.0	46.40		mg/L		93	80 - 120	0	20

Lab Sample ID: 880-18994-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 68720											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	1.00	J	50.0	45.20		mg/L		88	80 - 120		

Lab Sample ID: 880-18994-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 68720											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	1.00	J	50.0	45.40		mg/L		89	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 68379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	8260C	
MB 860-68379/10	Method Blank	Total/NA	Water	8260C	
LCS 860-68379/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68379/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 68592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-2	MW-2	Total/NA	Water	8260C	
880-18994-2	MW-2	Total/NA	Water	8260C	
MB 860-68592/9	Method Blank	Total/NA	Water	8260C	
LCS 860-68592/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68592/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 68672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-18994-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-68672/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-68672/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-68672/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 68684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-68672/1-A	Method Blank	Total/NA	Water	8015B NM	68672
LCS 860-68672/2-A	Lab Control Sample	Total/NA	Water	8015B NM	68672
LCSD 860-68672/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	68672

Analysis Batch: 68686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	8015B NM	68672
880-18994-2	MW-2	Total/NA	Water	8015B NM	68672

Analysis Batch: 68755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	8015 NM	
880-18994-2	MW-2	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 68564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	300.0	
880-18994-2	MW-2	Total/NA	Water	300.0	
MB 860-68564/3	Method Blank	Total/NA	Water	300.0	
LCS 860-68564/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-68564/12	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-68564/10	Lab Control Sample	Total/NA	Water	300.0	
880-18994-1 MS	MW-1	Total/NA	Water	300.0	
880-18994-1 MSD	MW-1	Total/NA	Water	300.0	
880-18994-2 MS	MW-2	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-18994-1

HPLC/IC (Continued)

Analysis Batch: 68564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-2 MSD	MW-2	Total/NA	Water	300.0	

Analysis Batch: 68565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	300.0	
880-18994-2	MW-2	Total/NA	Water	300.0	
MB 860-68565/3	Method Blank	Total/NA	Water	300.0	
LCS 860-68565/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-68565/12	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-68565/9	Lab Control Sample	Total/NA	Water	300.0	
880-18994-1 MS	MW-1	Total/NA	Water	300.0	
880-18994-1 MSD	MW-1	Total/NA	Water	300.0	
880-18994-2 MS	MW-2	Total/NA	Water	300.0	
880-18994-2 MSD	MW-2	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 68650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	SM 2320B	
880-18994-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-68650/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-68650/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-68650/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 68696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-18994-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 68720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-18994-2	MW-2	Total/NA	Water	SM 4500 S2 F	
LCS 860-68720/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-68720/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-18994-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-18994-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 69440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18994-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-18994-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Job ID: 880-18994-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-18994-1

Date Collected: 09/08/22 11:10

Matrix: Water

Date Received: 09/08/22 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	68379	NA	EET HOU	09/09/22 14:53
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/12/22 18:16
Total/NA	Prep	8015NM Aq Prep			68672	SAR	EET HOU	09/12/22 12:28
Total/NA	Analysis	8015B NM		1	68686	SAR	EET HOU	09/12/22 15:16
Total/NA	Analysis	300.0		1	68564	RBNS	EET HOU	09/10/22 18:22
Total/NA	Analysis	300.0		1	68565	RBNS	EET HOU	09/10/22 18:22
Total/NA	Analysis	SM 2320B		1	68650	TL	EET HOU	09/10/22 14:18
Total/NA	Analysis	SM 4500 CO2 D		1	69440	AA	EET HOU	09/16/22 16:27
Total/NA	Analysis	SM 4500 H+ B		1	68696	TL	EET HOU	09/12/22 13:23
Total/NA	Analysis	SM 4500 S2 F		1	68720	SCI	EET HOU	09/12/22 16:09

Client Sample ID: MW-2

Lab Sample ID: 880-18994-2

Date Collected: 09/08/22 12:20

Matrix: Water

Date Received: 09/08/22 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	68592	NA	EET HOU	09/12/22 11:58
Total/NA	Analysis	8260C		5	68592	NA	EET HOU	09/12/22 12:18
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/12/22 18:16
Total/NA	Prep	8015NM Aq Prep			68672	SAR	EET HOU	09/12/22 12:28
Total/NA	Analysis	8015B NM		1	68686	SAR	EET HOU	09/12/22 15:35
Total/NA	Analysis	300.0		1	68564	RBNS	EET HOU	09/10/22 18:57
Total/NA	Analysis	300.0		1	68565	RBNS	EET HOU	09/10/22 18:57
Total/NA	Analysis	SM 2320B		1	68650	TL	EET HOU	09/10/22 14:35
Total/NA	Analysis	SM 4500 CO2 D		1	69440	AA	EET HOU	09/16/22 16:27
Total/NA	Analysis	SM 4500 H+ B		1	68696	TL	EET HOU	09/12/22 13:24
Total/NA	Analysis	SM 4500 S2 F		1	68720	SCI	EET HOU	09/12/22 16:09

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-18994-1

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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		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)
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: 880-18994-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

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:

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

Sample Summary

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

Job ID: 880-18994-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18994-1	MW-1	Water	09/08/22 11:10	09/08/22 15:10
880-18994-2	MW-2	Water	09/08/22 12:20	09/08/22 15:10

- 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) 508-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-555-0800) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 18994

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marientfeld #400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email:	jennings@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	
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):	54.56	Thermometer ID					
Received Intact:	Yes	No	Correction Factor:				
Cooler Custody Seals:	Yes	No	Total Containers:				
Sample Custody Seals:	Yes	No					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
MW-1	GW	9-8-22	1110	-
MW-2	GW	9-8-22	1220	-

CUSTODY SEAL

Date 9-8-22

Signature

[Signature]

Thermo SCIENTIFIC

90009



880-18994 Chain of Custody

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

Sample Comments

24 Hr.

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		B		Cd		Ca		Cr		Co		Cu		Pb		Mn		Mo		Ni		K		Se		Ag		SiO2		Na		Sr		Ti		Sn		U		V		Zn	

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
<i>[Signature]</i>	<i>[Signature]</i>	9/8/22			2
		1810			4
					6

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-18994-1

Login Number: 18994

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: 880-18994-1

Login Number: 18994

List Number: 2

Creator: Rubio, Yuri

List Source: Eurofins Houston

List Creation: 09/09/22 01:31 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-19308-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobbs, NM - 03B1417001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

9/27/2022 9:04:03 AM

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 Hobbs, NM - 03B1417001

Laboratory Job ID: 880-19308-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum

Job ID: 880-19308-1

Project/Site: Levey Well Hobbs, 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
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.
H	Sample was prepped or analyzed beyond the specified holding time
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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-19308-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 Hobbs, NM - 03B1417001

Job ID: 880-19308-1
SDG: Hobbs NM

Job ID: 880-19308-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-19308-1**

Receipt

The sample was received on 9/16/2022 8:30 AM. 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 5.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-69535 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-69505 contained Chloride , and 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 860-69505 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 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-69506 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 300_ORGFMS: The following sample was analyzed outside of analytical holding time : Levey Well (880-19308-1).

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to <EXPLANATION_REQUIRED> : Levey Well (880-19308-1).

Method 300_ORGFMS: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. Levey Well (880-19308-1)

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

Metals

Method 200.7: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 860-69552 and analytical batch 860-69834 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Calcium and Sodium in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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 Hobbs, NM - 03B1417001

Job ID: 880-19308-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19308-1

Date Collected: 09/15/22 11:50

Matrix: Water

Date Received: 09/16/22 08:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00267		0.00100	0.000533	mg/L		09/19/22 11:23	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		09/19/22 11:23	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		09/19/22 11:23	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		09/19/22 11:23	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		09/19/22 11:23	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		09/19/22 11:23	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		09/19/22 11:23	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		09/19/22 11:23	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		09/19/22 11:23	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		09/19/22 11:23	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		09/19/22 11:23	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		09/19/22 11:23	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		09/19/22 11:23	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		09/19/22 11:23	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		09/19/22 11:23	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		09/19/22 11:23	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		09/19/22 11:23	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		09/19/22 11:23	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		09/19/22 11:23	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		09/19/22 11:23	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/19/22 11:23	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/19/22 11:23	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		09/19/22 11:23	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		09/19/22 11:23	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		09/19/22 11:23	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		09/19/22 11:23	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		09/19/22 11:23	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		09/19/22 11:23	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		09/19/22 11:23	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		09/19/22 11:23	1
Ethylbenzene	0.00952		0.00100	0.000411	mg/L		09/19/22 11:23	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		09/19/22 11:23	1
Isopropylbenzene	0.00459		0.00100	0.000613	mg/L		09/19/22 11:23	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		09/19/22 11:23	1
m,p-Xylenes	0.0378		0.0100	0.00124	mg/L		09/19/22 11:23	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		09/19/22 11:23	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		09/19/22 11:23	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		09/19/22 11:23	1
N-Propylbenzene	0.00203		0.00100	0.000498	mg/L		09/19/22 11:23	1
o-Xylene	0.00594		0.00100	0.000551	mg/L		09/19/22 11:23	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		09/19/22 11:23	1
sec-Butylbenzene	0.000792	J	0.00100	0.000468	mg/L		09/19/22 11:23	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		09/19/22 11:23	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		09/19/22 11:23	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		09/19/22 11:23	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		09/19/22 11:23	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		09/19/22 11:23	1
Toluene	0.0204		0.00100	0.000475	mg/L		09/19/22 11:23	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		09/19/22 11:23	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19308-1

Date Collected: 09/15/22 11:50

Matrix: Water

Date Received: 09/16/22 08:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 11:23	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/19/22 11:23	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/19/22 11:23	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/19/22 11:23	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/19/22 11:23	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/19/22 11:23	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/19/22 11:23	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/19/22 11:23	1
1,2,4-Trimethylbenzene	0.00863		0.00100	0.000417 mg/L			09/19/22 11:23	1
1,3,5-Trimethylbenzene	0.00281		0.00100	0.000456 mg/L			09/19/22 11:23	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/19/22 11:23	1
Xylenes, Total	0.0437		0.0100	0.00124 mg/L			09/19/22 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		09/19/22 11:23	1
Dibromofluoromethane (Surr)	96		75 - 131		09/19/22 11:23	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/19/22 11:23	1
Toluene-d8 (Surr)	101		80 - 117		09/19/22 11:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	1.55		0.500	0.0711 mg/L			09/17/22 17:50	1
Nitrate as N	0.116	H	0.100	0.0391 mg/L			09/17/22 17:50	1
Chloride	218		0.500	0.200 mg/L			09/17/22 17:50	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			09/17/22 17:50	1
Fluoride	0.688		0.500	0.100 mg/L			09/20/22 21:19	1
Sulfate	47.4	B	0.500	0.109 mg/L			09/17/22 17:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	241		10.0	5.76 mg/L		09/19/22 09:00	09/19/22 18:15	50
Magnesium	52.6		0.200	0.0428 mg/L		09/19/22 09:00	09/19/22 17:53	1
Potassium	4.39		0.500	0.0914 mg/L		09/19/22 09:00	09/19/22 17:53	1
Sodium	81.7		0.500	0.152 mg/L		09/19/22 09:00	09/19/22 17:53	1
SiO2	67.4		1.07	0.471 mg/L		09/19/22 09:00	09/19/22 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-4.19			%			09/27/22 08:53	1
Alkalinity	618		4.00	4.00 mg/L			09/19/22 12:45	1
Bicarbonate Alkalinity as CaCO3	618		4.00	4.00 mg/L			09/19/22 12:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/19/22 12:45	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			09/19/22 12:45	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			09/19/22 12:45	1
Total Dissolved Solids	1170		10.0	10.0 mg/L			09/19/22 09:39	1
pH	6.4	HF		SU			09/19/22 12:59	1
Temperature	19.3	HF		Degrees C			09/19/22 12:59	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-19308-1
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)
860-33340-G-1 MS	Matrix Spike	101	99	97	100
880-19308-1	Levey Well	96	96	101	101
LCS 860-69535/3	Lab Control Sample	100	98	99	99
LCSD 860-69535/4	Lab Control Sample Dup	99	98	97	98
MB 860-69535/9	Method Blank	99	98	102	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
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-19308-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-69535/9

Matrix: Water

Analysis Batch: 69535

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/19/22 09:40	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/19/22 09:40	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/19/22 09:40	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/19/22 09:40	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/19/22 09:40	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/19/22 09:40	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/19/22 09:40	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/19/22 09:40	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/19/22 09:40	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/19/22 09:40	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/19/22 09:40	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/19/22 09:40	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/19/22 09:40	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/19/22 09:40	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/19/22 09:40	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/19/22 09:40	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/19/22 09:40	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 09:40	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/19/22 09:40	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/19/22 09:40	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 09:40	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 09:40	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 09:40	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/19/22 09:40	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/19/22 09:40	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/19/22 09:40	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/19/22 09:40	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/19/22 09:40	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/19/22 09:40	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/19/22 09:40	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/19/22 09:40	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/19/22 09:40	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/19/22 09:40	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/19/22 09:40	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/19/22 09:40	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/19/22 09:40	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/19/22 09:40	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 09:40	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/19/22 09:40	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/19/22 09:40	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 09:40	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/19/22 09:40	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/19/22 09:40	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/19/22 09:40	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 09:40	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/19/22 09:40	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/19/22 09:40	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/19/22 09:40	1

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QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-69535/9

Matrix: Water

Analysis Batch: 69535

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	<0.000945	U	0.00100	0.000945 mg/L			09/19/22 09:40	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 09:40	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/19/22 09:40	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/19/22 09:40	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/19/22 09:40	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/19/22 09:40	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/19/22 09:40	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/19/22 09:40	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/19/22 09:40	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/19/22 09:40	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/19/22 09:40	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/19/22 09:40	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/19/22 09:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		09/19/22 09:40	1
Dibromofluoromethane (Surr)	98		75 - 131		09/19/22 09:40	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		09/19/22 09:40	1
Toluene-d8 (Surr)	100		80 - 117		09/19/22 09:40	1

Lab Sample ID: LCS 860-69535/3

Matrix: Water

Analysis Batch: 69535

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	0.05052		mg/L		101	75 - 125
Bromobenzene	0.0500	0.05176		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.04934		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.05245		mg/L		105	75 - 125
Bromoform	0.0500	0.05363		mg/L		107	70 - 130
Bromomethane	0.0500	0.04754		mg/L		95	60 - 140
2-Butanone	0.250	0.2446		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.05143		mg/L		103	70 - 130
Chlorobenzene	0.0500	0.05219		mg/L		104	65 - 135
Chloroethane	0.0500	0.04540		mg/L		91	60 - 140
Chloroform	0.0500	0.05122		mg/L		102	70 - 121
Chloromethane	0.0500	0.04433		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.05183		mg/L		104	73 - 125
4-Chlorotoluene	0.0500	0.05224		mg/L		104	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05074		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05321		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.05393		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05165		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.05121		mg/L		102	73 - 125
1,2-Dichlorobenzene	0.0500	0.05230		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05109		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05043		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.04863		mg/L		97	70 - 130

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QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-69535/3

Matrix: Water

Analysis Batch: 69535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04960		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.05052		mg/L		101	72 - 130
1,1-Dichloroethene	0.0500	0.04692		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.05200		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05157		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.05213		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04925		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.05397		mg/L		108	75 - 125
Hexachlorobutadiene	0.0500	0.05088		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.05585		mg/L		112	75 - 125
Methylene Chloride	0.0500	0.04559		mg/L		91	75 - 125
m,p-Xylenes	0.0500	0.05415		mg/L		108	75 - 125
MTBE	0.0500	0.05037		mg/L		101	65 - 135
Naphthalene	0.0500	0.05702		mg/L		114	70 - 130
n-Butylbenzene	0.0500	0.05296		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.05323		mg/L		106	75 - 125
o-Xylene	0.0500	0.05440		mg/L		109	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05572		mg/L		111	75 - 125
sec-Butylbenzene	0.0500	0.05450		mg/L		109	75 - 125
Styrene	0.0500	0.05447		mg/L		109	75 - 125
tert-Butylbenzene	0.0500	0.05427		mg/L		109	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05407		mg/L		108	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05085		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05547		mg/L		111	71 - 125
Toluene	0.0500	0.05122		mg/L		102	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04961		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05393		mg/L		108	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05515		mg/L		110	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05055		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.05040		mg/L		101	70 - 130
1,1,2-Trichloroethane	0.0500	0.05197		mg/L		104	70 - 130
Trichloroethene	0.0500	0.05280		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.04771		mg/L		95	60 - 140
1,2,3-Trichloropropane	0.0500	0.05206		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05434		mg/L		109	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05413		mg/L		108	60 - 140
Vinyl chloride	0.0500	0.04505		mg/L		90	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-69535/4

Matrix: Water

Analysis Batch: 69535

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	0.05116		mg/L		102	75 - 125	1	25
Bromobenzene	0.0500	0.05143		mg/L		103	75 - 125	1	25
Bromochloromethane	0.0500	0.04942		mg/L		99	60 - 140	0	25
Bromodichloromethane	0.0500	0.05168		mg/L		103	75 - 125	1	25
Bromoform	0.0500	0.05247		mg/L		105	70 - 130	2	25
Bromomethane	0.0500	0.04756		mg/L		95	60 - 140	0	25
2-Butanone	0.250	0.2442		mg/L		98	60 - 140	0	25
Carbon tetrachloride	0.0500	0.05424		mg/L		108	70 - 130	5	25
Chlorobenzene	0.0500	0.05180		mg/L		104	65 - 135	1	25
Chloroethane	0.0500	0.04667		mg/L		93	60 - 140	3	25
Chloroform	0.0500	0.05145		mg/L		103	70 - 121	0	25
Chloromethane	0.0500	0.04551		mg/L		91	60 - 140	3	25
2-Chlorotoluene	0.0500	0.05293		mg/L		106	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05309		mg/L		106	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05119		mg/L		102	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05253		mg/L		105	74 - 125	1	25
Dibromochloromethane	0.0500	0.05337		mg/L		107	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05300		mg/L		106	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.05015		mg/L		100	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05213		mg/L		104	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05162		mg/L		103	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05130		mg/L		103	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.05067		mg/L		101	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.05003		mg/L		100	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05036		mg/L		101	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04935		mg/L		99	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.05195		mg/L		104	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05017		mg/L		100	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05289		mg/L		106	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.05136		mg/L		103	75 - 125	4	25
Ethylbenzene	0.0500	0.05412		mg/L		108	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05436		mg/L		109	75 - 125	7	25
Isopropylbenzene	0.0500	0.05655		mg/L		113	75 - 125	1	25
Methylene Chloride	0.0500	0.04499		mg/L		90	75 - 125	1	25
m,p-Xylenes	0.0500	0.05460		mg/L		109	75 - 125	1	25
MTBE	0.0500	0.05033		mg/L		101	65 - 135	0	25
Naphthalene	0.0500	0.05995		mg/L		120	70 - 130	5	25
n-Butylbenzene	0.0500	0.05662		mg/L		113	75 - 125	7	25
N-Propylbenzene	0.0500	0.05557		mg/L		111	75 - 125	4	25
o-Xylene	0.0500	0.05385		mg/L		108	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05903		mg/L		118	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05824		mg/L		116	75 - 125	7	25
Styrene	0.0500	0.05384		mg/L		108	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05789		mg/L		116	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05291		mg/L		106	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05099		mg/L		102	74 - 125	0	25
Tetrachloroethene	0.0500	0.05578		mg/L		112	71 - 125	1	25
Toluene	0.0500	0.05164		mg/L		103	70 - 130	1	25

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QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-69535/4

Matrix: Water

Analysis Batch: 69535

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	0.05056		mg/L		101	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05189		mg/L		104	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05979		mg/L		120	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.05343		mg/L		107	75 - 135	6	25
1,1,1-Trichloroethane	0.0500	0.05229		mg/L		105	70 - 130	4	25
1,1,2-Trichloroethane	0.0500	0.05143		mg/L		103	70 - 130	1	25
Trichloroethene	0.0500	0.05334		mg/L		107	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05104		mg/L		102	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05120		mg/L		102	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.05571		mg/L		111	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05532		mg/L		111	60 - 140	2	25
Vinyl chloride	0.0500	0.04741		mg/L		95	60 - 140	5	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-69505/3

Matrix: Water

Analysis Batch: 69505

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			09/17/22 14:05	1
Chloride	<0.200	U	0.500	0.200 mg/L			09/17/22 14:05	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/17/22 14:05	1
Sulfate	0.2143	J	0.500	0.109 mg/L			09/17/22 14:05	1

Lab Sample ID: LCS 860-69505/6

Matrix: Water

Analysis Batch: 69505

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	10.51		mg/L		105	90 - 110
Chloride	10.0	10.19		mg/L		102	90 - 110
Fluoride	10.0	10.83		mg/L		108	90 - 110
Sulfate	10.0	9.867		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-69505/7

Matrix: Water

Analysis Batch: 69505

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	10.60		mg/L		106	90 - 110	1	20
Chloride	10.0	10.22		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.88		mg/L		109	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-69505/7

Matrix: Water

Analysis Batch: 69505

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	9.927		mg/L		99	90 - 110	1	20

Lab Sample ID: LLCS 860-69505/5

Matrix: Water

Analysis Batch: 69505

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	0.5636		mg/L		113	50 - 150		
Chloride	0.500	0.5330		mg/L		107	50 - 150		
Fluoride	0.500	0.5088		mg/L		102	50 - 150		
Sulfate	0.500	0.5727		mg/L		115	50 - 150		

Lab Sample ID: MB 860-69506/3

Matrix: Water

Analysis Batch: 69506

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			09/17/22 14:05	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/17/22 14:05	1

Lab Sample ID: LCS 860-69506/6

Matrix: Water

Analysis Batch: 69506

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	10.29		mg/L		103	80 - 120		
Nitrite as N	5.00	5.292		mg/L		106	80 - 120		

Lab Sample ID: LCSD 860-69506/7

Matrix: Water

Analysis Batch: 69506

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	10.33		mg/L		103	80 - 120	0	20
Nitrite as N	5.00	5.343		mg/L		107	80 - 120	1	20

Lab Sample ID: LLCS 860-69506/4

Matrix: Water

Analysis Batch: 69506

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	0.1432		mg/L		143	50 - 150		
Nitrite as N	0.100	0.1205		mg/L		120	50 - 150		

Lab Sample ID: MB 860-69744/3

Matrix: Water

Analysis Batch: 69744

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			09/20/22 19:01	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-69744/3

Matrix: Water

Analysis Batch: 69744

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			09/20/22 19:01	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/20/22 19:01	1
Sulfate	<0.109	U	0.500	0.109 mg/L			09/20/22 19:01	1

Lab Sample ID: LCS 860-69744/72

Matrix: Water

Analysis Batch: 69744

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	10.15		mg/L		101	90 - 110
Chloride	10.0	9.683		mg/L		97	90 - 110
Fluoride	10.0	10.13		mg/L		101	90 - 110
Sulfate	10.0	9.361		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-69744/73

Matrix: Water

Analysis Batch: 69744

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	10.55		mg/L		105	90 - 110	4	20
Chloride	10.0	10.19		mg/L		102	90 - 110	5	20
Fluoride	10.0	10.64		mg/L		106	90 - 110	5	20
Sulfate	10.0	9.998		mg/L		100	90 - 110	7	20

Lab Sample ID: LLCS 860-69744/5

Matrix: Water

Analysis Batch: 69744

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	0.4532	J	mg/L		91	50 - 150
Chloride	0.500	0.5235		mg/L		105	50 - 150
Fluoride	0.500	0.4561	J	mg/L		91	50 - 150
Sulfate	0.500	0.3231	J	mg/L		65	50 - 150

Lab Sample ID: 880-19308-1 MS

Matrix: Water

Analysis Batch: 69744

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
Bromide	0.315	J	10.0	9.955		mg/L		96	90 - 110
Chloride	210		10.0	222.5	4	mg/L		121	90 - 110
Fluoride	0.688		10.0	10.12		mg/L		94	90 - 110
Sulfate	47.9		10.0	57.94	4	mg/L		100	90 - 110

Lab Sample ID: 880-19308-1 MSD

Matrix: Water

Analysis Batch: 69744

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.315	J	10.0	10.15		mg/L		98	90 - 110	2	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19308-1 MSD

Matrix: Water

Analysis Batch: 69744

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	210		10.0	218.1	4	mg/L		77	90 - 110	2	20
Fluoride	0.688		10.0	10.19		mg/L		95	90 - 110	1	20
Sulfate	47.9		10.0	56.94	4	mg/L		90	90 - 110	2	20

Lab Sample ID: MB 860-69745/3

Matrix: Water

Analysis Batch: 69745

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			09/20/22 19:01	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/20/22 19:01	1

Lab Sample ID: LCS 860-69745/72

Matrix: Water

Analysis Batch: 69745

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	9.534		mg/L		95	80 - 120
Nitrite as N	5.00	4.955		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-69745/73

Matrix: Water

Analysis Batch: 69745

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	9.850		mg/L		99	80 - 120	3	20
Nitrite as N	5.00	5.173		mg/L		103	80 - 120	4	20

Lab Sample ID: LLCS 860-69745/5

Matrix: Water

Analysis Batch: 69745

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	0.4922		mg/L		98	50 - 150
Nitrite as N	0.500	0.4797		mg/L		96	50 - 150

Lab Sample ID: 880-19308-1 MS

Matrix: Water

Analysis Batch: 69745

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
Nitrate as N	<0.0391	U H	10.0	9.706		mg/L		97	80 - 120
Nitrite as N	<0.0293	U H	2.50	2.128		mg/L		85	80 - 120

Lab Sample ID: 880-19308-1 MSD

Matrix: Water

Analysis Batch: 69745

Client Sample ID: Levey Well

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	<0.0391	U H	10.0	9.595		mg/L		96	80 - 120	1	15

Eurofins Midland

QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19308-1 MSD

Matrix: Water

Analysis Batch: 69745

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	<0.0293	U H	2.50	1.990		mg/L		80	80 - 120	7	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-69552/1-A

Matrix: Water

Analysis Batch: 69834

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 69552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		09/19/22 09:00	09/19/22 17:13	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		09/19/22 09:00	09/19/22 17:13	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		09/19/22 09:00	09/19/22 17:13	1
Sodium	<0.152	U	0.500	0.152 mg/L		09/19/22 09:00	09/19/22 17:13	1
SiO2	<0.471	U	1.07	0.471 mg/L		09/19/22 09:00	09/19/22 17:13	1

Lab Sample ID: LCS 860-69552/2-A

Matrix: Water

Analysis Batch: 69834

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 69552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.60		mg/L		94	85 - 115
Magnesium	25.0	24.20		mg/L		97	85 - 115
Potassium	10.0	9.970		mg/L		100	85 - 115
Sodium	25.0	24.70		mg/L		99	85 - 115
SiO2	21.4	21.04		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-69552/3-A

Matrix: Water

Analysis Batch: 69834

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 69552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	23.60		mg/L		94	85 - 115	0	20
Magnesium	25.0	24.20		mg/L		97	85 - 115	0	20
Potassium	10.0	9.960		mg/L		100	85 - 115	0	20
Sodium	25.0	24.60		mg/L		98	85 - 115	0	20
SiO2	21.4	20.99		mg/L		98	85 - 115	0	20

Lab Sample ID: LLCS 860-69552/4-A

Matrix: Water

Analysis Batch: 69834

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 69552

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1740	J	mg/L		87	50 - 150
Magnesium	0.200	0.2000		mg/L		100	50 - 150
Potassium	0.500	0.4980	J	mg/L		100	50 - 150
Sodium	0.500	0.4500	J	mg/L		90	50 - 150
SiO2	1.07	1.025	J	mg/L		96	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-19308-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-69715/4

Matrix: Water

Analysis Batch: 69715

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			09/19/22 11:42	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			09/19/22 11:42	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	mg/L			09/19/22 11:42	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			09/19/22 11:42	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			09/19/22 11:42	1

Lab Sample ID: LCS 860-69715/5

Matrix: Water

Analysis Batch: 69715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.9		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-69715/6

Matrix: Water

Analysis Batch: 69715

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	251.0		mg/L		100	85 - 115	1	20

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

Lab Sample ID: MB 860-69570/1

Matrix: Water

Analysis Batch: 69570

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			09/19/22 09:39	1

Lab Sample ID: LCS 860-69570/2

Matrix: Water

Analysis Batch: 69570

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	972.0		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-69570/3

Matrix: Water

Analysis Batch: 69570

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	957.0		mg/L		96	80 - 120	2	10

Eurofins Midland

QC Association Summary

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

Job ID: 880-19308-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 69535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	8260C	
MB 860-69535/9	Method Blank	Total/NA	Water	8260C	
LCS 860-69535/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-69535/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 69505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	300.0	
MB 860-69505/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69505/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69505/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69505/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 69506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	300.0	
MB 860-69506/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69506/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69506/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69506/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 69744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	300.0	
MB 860-69744/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69744/72	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69744/73	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69744/5	Lab Control Sample	Total/NA	Water	300.0	
880-19308-1 MS	Levey Well	Total/NA	Water	300.0	
880-19308-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 69745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-69745/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69745/72	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69745/73	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69745/5	Lab Control Sample	Total/NA	Water	300.0	
880-19308-1 MS	Levey Well	Total/NA	Water	300.0	
880-19308-1 MSD	Levey Well	Total/NA	Water	300.0	

Metals

Prep Batch: 69552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-69552/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-69552/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-69552/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-69552/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Eurofins Midland

QC Association Summary

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

Job ID: 880-19308-1
SDG: Hobbs NM

Metals

Analysis Batch: 69834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	69552
880-19308-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	69552
MB 860-69552/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	69552
LCS 860-69552/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	69552
LCSD 860-69552/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	69552
LLCS 860-69552/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	69552

General Chemistry

Analysis Batch: 69570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-69570/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-69570/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-69570/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 69636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 69715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-69715/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-69715/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-69715/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 70700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19308-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-19308-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19308-1

Date Collected: 09/15/22 11:50

Matrix: Water

Date Received: 09/16/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	69535	NA	EET HOU	09/19/22 11:23
Total/NA	Analysis	300.0		1	69505	A1S	EET HOU	09/17/22 17:50
Total/NA	Analysis	300.0		1	69506	A1S	EET HOU	09/17/22 17:50
Total/NA	Analysis	300.0		1	69744	WP	EET HOU	09/20/22 21:19
Total Recoverable	Prep	200.7			69552	MD	EET HOU	09/19/22 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	69834	DP	EET HOU	09/19/22 17:53
Total Recoverable	Prep	200.7			69552	MD	EET HOU	09/19/22 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	69834	DP	EET HOU	09/19/22 18:15
Total/NA	Analysis	SM 1030E		1	70700	AA	EET HOU	09/27/22 08:53
Total/NA	Analysis	SM 2320B		1	69715	TL	EET HOU	09/19/22 12:45
Total/NA	Analysis	SM 2540C		1	69570	MCA	EET HOU	09/19/22 09:39
Total/NA	Analysis	SM 4500 H+ B		1	69636	TL	EET HOU	09/19/22 12:59

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

Accreditation/Certification Summary

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

Job ID: 880-19308-1
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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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 Hobbs, NM - 03B1417001

Job ID: 880-19308-1
SDG: Hobbs NM

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

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:

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

Sample Summary

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

Job ID: 880-19308-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19308-1	Levey Well	Water	09/15/22 11:50	09/16/22 08:30

- 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: 19308

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Warrenfield Street, Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ 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		
Project Number:	03B1417001		Routine ☐		
P.O. Number:	03B1417001		Rush 24 hr		
Sample's Name:	Archie Marquez	Beaux Jennings	Due Date		
SAMPLE RECEIPT					
Temperature (°C):	57.5	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Received In tact:	Yes ☒ No ☐	Thermometer ID	JPC28		
Cooler Custody Seals:	Yes ☐ No ☒	Correction Factor:	.20		
Sample Custody Seals:	Yes ☐ No ☒	Total Containers:			

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	9/15/22	1150	-	7	X	X	X	X	X	X	24 hr
880-19308 Chain of Custody 												

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 AI 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	1631 / 245.1 / 7470 / 7471 Hg		
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
1	2	9/16/22 0830	3	4	
5	6				

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-19308-1

SDG Number: Hobbs NM

Login Number: 19308

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: 880-19308-1

SDG Number: Hobbs NM

Login Number: 19308

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 09/17/22 03:18 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: 880-19307-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

9/27/2022 10:01:05 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: 880-19307-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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
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.
S1-	Surrogate recovery exceeds control limits, low biased.
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.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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.
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.

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-19307-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: South Hobbs - 03B1417002

Job ID: 880-19307-1

Job ID: 880-19307-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-19307-1

Receipt

The samples were received on 9/16/2022 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-69535 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 860-69628 and analytical batch 860-69593 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 method blank for analytical batch 860-69505 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 860-69505 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 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-69506 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 300_ORGFMS: The following samples were analyzed outside of analytical holding time : MW-1 (880-19307-1) and MW-2 (880-19307-2).

Method 300_ORGFMS: Reanalysis of the following samples were performed outside of the analytical holding time due to <EXPLANATION_REQUIRED> : MW-1 (880-19307-1) and MW-2 (880-19307-2).

Method 300_ORGFMS: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-1 (880-19307-1) and MW-2 (880-19307-2)

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: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19307-1

Date Collected: 09/15/22 13:00

Matrix: Water

Date Received: 09/16/22 08:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/19/22 11:43	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/19/22 11:43	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/19/22 11:43	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/19/22 11:43	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/19/22 11:43	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/19/22 11:43	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/19/22 11:43	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/19/22 11:43	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/19/22 11:43	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/19/22 11:43	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/19/22 11:43	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/19/22 11:43	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/19/22 11:43	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/19/22 11:43	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/19/22 11:43	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/19/22 11:43	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/19/22 11:43	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 11:43	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/19/22 11:43	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/19/22 11:43	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 11:43	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 11:43	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 11:43	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/19/22 11:43	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/19/22 11:43	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/19/22 11:43	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/19/22 11:43	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/19/22 11:43	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/19/22 11:43	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/19/22 11:43	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/19/22 11:43	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/19/22 11:43	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/19/22 11:43	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/19/22 11:43	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/19/22 11:43	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/19/22 11:43	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/19/22 11:43	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 11:43	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/19/22 11:43	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/19/22 11:43	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 11:43	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/19/22 11:43	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/19/22 11:43	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/19/22 11:43	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 11:43	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/19/22 11:43	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/19/22 11:43	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/19/22 11:43	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/19/22 11:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19307-1

Date Collected: 09/15/22 13:00

Matrix: Water

Date Received: 09/16/22 08:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 11:43	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/19/22 11:43	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/19/22 11:43	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/19/22 11:43	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/19/22 11:43	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/19/22 11:43	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/19/22 11:43	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/19/22 11:43	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/19/22 11:43	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/19/22 11:43	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/19/22 11:43	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/19/22 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		09/19/22 11:43	1
Dibromofluoromethane (Surr)	98		75 - 131		09/19/22 11:43	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		09/19/22 11:43	1
Toluene-d8 (Surr)	101		80 - 117		09/19/22 11:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988 mg/L			09/20/22 17:01	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	<0.988	U	5.00	0.988 mg/L		09/19/22 12:25	09/19/22 14:52	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		09/19/22 12:25	09/19/22 14:52	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		09/19/22 12:25	09/19/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135			09/19/22 12:25	09/19/22 14:52	1
o-Terphenyl	103		70 - 135			09/19/22 12:25	09/19/22 14:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		0.500	0.200 mg/L			09/17/22 17:03	1
Nitrate as N	0.0909	J H	0.100	0.0391 mg/L			09/17/22 17:03	1
Fluoride	1.03		0.500	0.100 mg/L			09/20/22 22:38	1
Nitrite as N	0.206	H F1	0.100	0.0293 mg/L			09/17/22 17:03	1
Sulfate	33.4	B F1	0.500	0.109 mg/L			09/17/22 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	277		4.00	4.00 mg/L			09/19/22 12:08	1
Bicarbonate Alkalinity as CaCO3	277		4.00	4.00 mg/L			09/19/22 12:08	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/19/22 12:08	1
Carbon dioxide	299			mg/L			09/16/22 16:27	1
Carbon Dioxide, Free	55.4			mg/L			09/16/22 16:27	1
pH	7.0	HF		SU			09/19/22 12:54	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19307-1

Date Collected: 09/15/22 13:00

Matrix: Water

Date Received: 09/16/22 08:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	18.6	HF		Degrees C			09/19/22 12:54	1
Sulfide	0.800	J	5.00	0.495 mg/L			09/22/22 09:42	1

Client Sample ID: MW-2

Lab Sample ID: 880-19307-2

Date Collected: 09/15/22 14:35

Matrix: Water

Date Received: 09/16/22 08:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0145		0.00100	0.000533 mg/L			09/19/22 11:02	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/19/22 11:02	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/19/22 11:02	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/19/22 11:02	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/19/22 11:02	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/19/22 11:02	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/19/22 11:02	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/19/22 11:02	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/19/22 11:02	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/19/22 11:02	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/19/22 11:02	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/19/22 11:02	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/19/22 11:02	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/19/22 11:02	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/19/22 11:02	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/19/22 11:02	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/19/22 11:02	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 11:02	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/19/22 11:02	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/19/22 11:02	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 11:02	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 11:02	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 11:02	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/19/22 11:02	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/19/22 11:02	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/19/22 11:02	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/19/22 11:02	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/19/22 11:02	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/19/22 11:02	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/19/22 11:02	1
Ethylbenzene	0.0194		0.00100	0.000411 mg/L			09/19/22 11:02	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/19/22 11:02	1
Isopropylbenzene	0.0100		0.00100	0.000613 mg/L			09/19/22 11:02	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/19/22 11:02	1
m,p-Xylenes	0.0978		0.0100	0.00124 mg/L			09/19/22 11:02	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/19/22 11:02	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/19/22 11:02	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 11:02	1
N-Propylbenzene	0.00282		0.00100	0.000498 mg/L			09/19/22 11:02	1
o-Xylene	0.00648		0.00100	0.000551 mg/L			09/19/22 11:02	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 11:02	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-19307-2

Date Collected: 09/15/22 14:35

Matrix: Water

Date Received: 09/16/22 08:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00116		0.00100	0.000468 mg/L			09/19/22 11:02	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/19/22 11:02	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/19/22 11:02	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 11:02	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/19/22 11:02	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/19/22 11:02	1
Toluene	0.000532	J	0.00100	0.000475 mg/L			09/19/22 11:02	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/19/22 11:02	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 11:02	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/19/22 11:02	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/19/22 11:02	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/19/22 11:02	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/19/22 11:02	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/19/22 11:02	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/19/22 11:02	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/19/22 11:02	1
1,2,4-Trimethylbenzene	0.0270		0.00100	0.000417 mg/L			09/19/22 11:02	1
1,3,5-Trimethylbenzene	0.00712		0.00100	0.000456 mg/L			09/19/22 11:02	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/19/22 11:02	1
Xylenes, Total	0.104		0.0100	0.00124 mg/L			09/19/22 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		09/19/22 11:02	1
Dibromofluoromethane (Surr)	95		75 - 131		09/19/22 11:02	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/19/22 11:02	1
Toluene-d8 (Surr)	100		80 - 117		09/19/22 11:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.83	J	5.43	1.07 mg/L			09/20/22 17:01	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	1.83	J	5.43	1.07 mg/L		09/19/22 12:26	09/19/22 15:32	1
Diesel Range Organics (Over C10-C28)	<1.07	U F1	5.43	1.07 mg/L		09/19/22 12:26	09/19/22 15:32	1
Oil Range Organics (Over C28-C36)	<1.04	U	5.43	1.04 mg/L		09/19/22 12:26	09/19/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 135	09/19/22 12:26	09/19/22 15:32	1
o-Terphenyl	97		70 - 135	09/19/22 12:26	09/19/22 15:32	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.4		0.500	0.200 mg/L			09/17/22 17:39	1
Nitrate as N	0.232	H	0.100	0.0391 mg/L			09/17/22 17:39	1
Fluoride	0.538		0.500	0.100 mg/L			09/20/22 22:49	1
Nitrite as N	2.31	H	0.100	0.0293 mg/L			09/17/22 17:39	1
Sulfate	98.7	B	0.500	0.109 mg/L			09/17/22 17:39	1

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Client Sample Results

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

Job ID: 880-19307-1

Client Sample ID: MW-2
Date Collected: 09/15/22 14:35
Date Received: 09/16/22 08:30

Lab Sample ID: 880-19307-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00	mg/L			09/19/22 12:34	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00	mg/L			09/19/22 12:34	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			09/19/22 12:34	1
Carbon dioxide	2490				mg/L			09/16/22 16:27	1
Carbon Dioxide, Free	1320				mg/L			09/16/22 16:27	1
pH	6.3	HF			SU			09/19/22 12:58	1
Temperature	18.9	HF			Degrees C			09/19/22 12:58	1
Sulfide	<0.495	U	5.00	0.495	mg/L			09/22/22 09:42	1

Surrogate Summary

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

Job ID: 880-19307-1

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)
860-33340-G-1 MS	Matrix Spike	101	99	97	100
880-19307-1	MW-1	98	98	104	101
880-19307-2	MW-2	94	95	101	100
LCS 860-69535/3	Lab Control Sample	100	98	99	99
LCSD 860-69535/4	Lab Control Sample Dup	99	98	97	98
MB 860-69535/9	Method Blank	99	98	102	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-19307-1	MW-1	87	103
880-19307-2	MW-2	77	97
880-19307-2 MS	MW-2	65 S1-	69 S1-
LCS 860-69628/2-A	Lab Control Sample	95	114
LCSD 860-69628/3-A	Lab Control Sample Dup	94	113
MB 860-69628/1-A	Method Blank	81	96
MB 860-69628/1-A	Method Blank	83	97
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-69535/9

Matrix: Water

Analysis Batch: 69535

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/19/22 09:40	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/19/22 09:40	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/19/22 09:40	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/19/22 09:40	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/19/22 09:40	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/19/22 09:40	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/19/22 09:40	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/19/22 09:40	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/19/22 09:40	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/19/22 09:40	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/19/22 09:40	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/19/22 09:40	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/19/22 09:40	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/19/22 09:40	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/19/22 09:40	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/19/22 09:40	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/19/22 09:40	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 09:40	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/19/22 09:40	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/19/22 09:40	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 09:40	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/19/22 09:40	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 09:40	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/19/22 09:40	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/19/22 09:40	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/19/22 09:40	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/19/22 09:40	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/19/22 09:40	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/19/22 09:40	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/19/22 09:40	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/19/22 09:40	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/19/22 09:40	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/19/22 09:40	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/19/22 09:40	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/19/22 09:40	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/19/22 09:40	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/19/22 09:40	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 09:40	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/19/22 09:40	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/19/22 09:40	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/19/22 09:40	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/19/22 09:40	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/19/22 09:40	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/19/22 09:40	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/19/22 09:40	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/19/22 09:40	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/19/22 09:40	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/19/22 09:40	1

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-69535/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69535

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/19/22 09:40	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/19/22 09:40	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/19/22 09:40	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/19/22 09:40	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/19/22 09:40	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/19/22 09:40	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/19/22 09:40	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/19/22 09:40	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/19/22 09:40	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/19/22 09:40	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/19/22 09:40	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/19/22 09:40	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/19/22 09:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		09/19/22 09:40	1
Dibromofluoromethane (Surr)	98		75 - 131		09/19/22 09:40	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		09/19/22 09:40	1
Toluene-d8 (Surr)	100		80 - 117		09/19/22 09:40	1

Lab Sample ID: LCS 860-69535/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05052		mg/L		101	75 - 125
Bromobenzene	0.0500	0.05176		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.04934		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.05245		mg/L		105	75 - 125
Bromoform	0.0500	0.05363		mg/L		107	70 - 130
Bromomethane	0.0500	0.04754		mg/L		95	60 - 140
2-Butanone	0.250	0.2446		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.05143		mg/L		103	70 - 130
Chlorobenzene	0.0500	0.05219		mg/L		104	65 - 135
Chloroethane	0.0500	0.04540		mg/L		91	60 - 140
Chloroform	0.0500	0.05122		mg/L		102	70 - 121
Chloromethane	0.0500	0.04433		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.05183		mg/L		104	73 - 125
4-Chlorotoluene	0.0500	0.05224		mg/L		104	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05074		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05321		mg/L		106	74 - 125
Dibromochloromethane	0.0500	0.05393		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05165		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.05121		mg/L		102	73 - 125
1,2-Dichlorobenzene	0.0500	0.05230		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05109		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05043		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.04863		mg/L		97	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-69535/3

Matrix: Water

Analysis Batch: 69535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04960		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.05052		mg/L		101	72 - 130
1,1-Dichloroethene	0.0500	0.04692		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.05200		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05157		mg/L		103	75 - 125
2,2-Dichloropropane	0.0500	0.05213		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04925		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.05397		mg/L		108	75 - 125
Hexachlorobutadiene	0.0500	0.05088		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.05585		mg/L		112	75 - 125
Methylene Chloride	0.0500	0.04559		mg/L		91	75 - 125
m,p-Xylenes	0.0500	0.05415		mg/L		108	75 - 125
MTBE	0.0500	0.05037		mg/L		101	65 - 135
Naphthalene	0.0500	0.05702		mg/L		114	70 - 130
n-Butylbenzene	0.0500	0.05296		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.05323		mg/L		106	75 - 125
o-Xylene	0.0500	0.05440		mg/L		109	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05572		mg/L		111	75 - 125
sec-Butylbenzene	0.0500	0.05450		mg/L		109	75 - 125
Styrene	0.0500	0.05447		mg/L		109	75 - 125
tert-Butylbenzene	0.0500	0.05427		mg/L		109	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05407		mg/L		108	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05085		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05547		mg/L		111	71 - 125
Toluene	0.0500	0.05122		mg/L		102	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04961		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05393		mg/L		108	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05515		mg/L		110	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05055		mg/L		101	75 - 135
1,1,1-Trichloroethane	0.0500	0.05040		mg/L		101	70 - 130
1,1,2-Trichloroethane	0.0500	0.05197		mg/L		104	70 - 130
Trichloroethene	0.0500	0.05280		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.04771		mg/L		95	60 - 140
1,2,3-Trichloropropane	0.0500	0.05206		mg/L		104	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05434		mg/L		109	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05413		mg/L		108	60 - 140
Vinyl chloride	0.0500	0.04505		mg/L		90	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-69535/4

Matrix: Water

Analysis Batch: 69535

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	0.05116		mg/L		102	75 - 125	1	25
Bromobenzene	0.0500	0.05143		mg/L		103	75 - 125	1	25
Bromochloromethane	0.0500	0.04942		mg/L		99	60 - 140	0	25
Bromodichloromethane	0.0500	0.05168		mg/L		103	75 - 125	1	25
Bromoform	0.0500	0.05247		mg/L		105	70 - 130	2	25
Bromomethane	0.0500	0.04756		mg/L		95	60 - 140	0	25
2-Butanone	0.250	0.2442		mg/L		98	60 - 140	0	25
Carbon tetrachloride	0.0500	0.05424		mg/L		108	70 - 130	5	25
Chlorobenzene	0.0500	0.05180		mg/L		104	65 - 135	1	25
Chloroethane	0.0500	0.04667		mg/L		93	60 - 140	3	25
Chloroform	0.0500	0.05145		mg/L		103	70 - 121	0	25
Chloromethane	0.0500	0.04551		mg/L		91	60 - 140	3	25
2-Chlorotoluene	0.0500	0.05293		mg/L		106	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05309		mg/L		106	74 - 125	2	25
cis-1,2-Dichloroethene	0.0500	0.05119		mg/L		102	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05253		mg/L		105	74 - 125	1	25
Dibromochloromethane	0.0500	0.05337		mg/L		107	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05300		mg/L		106	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.05015		mg/L		100	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05213		mg/L		104	75 - 125	0	25
1,3-Dichlorobenzene	0.0500	0.05162		mg/L		103	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05130		mg/L		103	75 - 125	2	25
Dichlorodifluoromethane	0.0500	0.05067		mg/L		101	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.05003		mg/L		100	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05036		mg/L		101	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04935		mg/L		99	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.05195		mg/L		104	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05017		mg/L		100	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05289		mg/L		106	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.05136		mg/L		103	75 - 125	4	25
Ethylbenzene	0.0500	0.05412		mg/L		108	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05436		mg/L		109	75 - 125	7	25
Isopropylbenzene	0.0500	0.05655		mg/L		113	75 - 125	1	25
Methylene Chloride	0.0500	0.04499		mg/L		90	75 - 125	1	25
m,p-Xylenes	0.0500	0.05460		mg/L		109	75 - 125	1	25
MTBE	0.0500	0.05033		mg/L		101	65 - 135	0	25
Naphthalene	0.0500	0.05995		mg/L		120	70 - 130	5	25
n-Butylbenzene	0.0500	0.05662		mg/L		113	75 - 125	7	25
N-Propylbenzene	0.0500	0.05557		mg/L		111	75 - 125	4	25
o-Xylene	0.0500	0.05385		mg/L		108	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05903		mg/L		118	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05824		mg/L		116	75 - 125	7	25
Styrene	0.0500	0.05384		mg/L		108	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05789		mg/L		116	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05291		mg/L		106	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05099		mg/L		102	74 - 125	0	25
Tetrachloroethene	0.0500	0.05578		mg/L		112	71 - 125	1	25
Toluene	0.0500	0.05164		mg/L		103	70 - 130	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-69535/4

Matrix: Water

Analysis Batch: 69535

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.05056		mg/L		101	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05189		mg/L		104	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05979		mg/L		120	75 - 137	8	25
1,2,4-Trichlorobenzene	0.0500	0.05343		mg/L		107	75 - 135	6	25
1,1,1-Trichloroethane	0.0500	0.05229		mg/L		105	70 - 130	4	25
1,1,2-Trichloroethane	0.0500	0.05143		mg/L		103	70 - 130	1	25
Trichloroethene	0.0500	0.05334		mg/L		107	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05104		mg/L		102	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05120		mg/L		102	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.05571		mg/L		111	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05532		mg/L		111	60 - 140	2	25
Vinyl chloride	0.0500	0.04741		mg/L		95	60 - 140	5	25

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

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

Lab Sample ID: MB 860-69628/1-A

Matrix: Water

Analysis Batch: 69593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69628

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		09/19/22 12:25	09/19/22 13:12	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		09/19/22 12:25	09/19/22 13:12	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		09/19/22 12:25	09/19/22 13:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	83		70 - 135	09/19/22 12:25	09/19/22 13:12	1
o-Terphenyl	97		70 - 135	09/19/22 12:25	09/19/22 13:12	1

Lab Sample ID: MB 860-69628/1-A

Matrix: Water

Analysis Batch: 69593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69628

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		09/19/22 12:25	09/19/22 14:32	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		09/19/22 12:25	09/19/22 14:32	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		09/19/22 12:25	09/19/22 14:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	81		70 - 135	09/19/22 12:25	09/19/22 14:32	1

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-69628/1-A

Matrix: Water

Analysis Batch: 69593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69628

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
<i>o</i> -Terphenyl	96		70 - 135	09/19/22 12:25	09/19/22 14:32	1				

Lab Sample ID: LCS 860-69628/2-A

Matrix: Water

Analysis Batch: 69593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69628

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			99.9	109.3		mg/L		109	70 - 135		
Diesel Range Organics (Over C10-C28)			99.8	99.11		mg/L		99	70 - 135		
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 135								
<i>o</i> -Terphenyl	114		70 - 135								

Lab Sample ID: LCSD 860-69628/3-A

Matrix: Water

Analysis Batch: 69593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 69628

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			99.9	109.0		mg/L		109	70 - 135	0	35	
Diesel Range Organics (Over C10-C28)			99.8	100.2		mg/L		100	70 - 135	1	35	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	94		70 - 135									
<i>o</i> -Terphenyl	113		70 - 135									

Lab Sample ID: 880-19307-2 MS

Matrix: Water

Analysis Batch: 69593

Client Sample ID: MW-2

Prep Type: Total/NA

Prep Batch: 69628

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1.83	J	99.2	80.84		mg/L		80	70 - 135		
Diesel Range Organics (Over C10-C28)	<1.07	U F1	99.1	67.95	F1	mg/L		69	70 - 135		
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	65	S1-	70 - 135								
<i>o</i> -Terphenyl	69	S1-	70 - 135								

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-69505/3

Matrix: Water

Analysis Batch: 69505

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			09/17/22 14:05	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/17/22 14:05	1
Sulfate	0.2143	J	0.500	0.109 mg/L			09/17/22 14:05	1

Lab Sample ID: LCS 860-69505/6

Matrix: Water

Analysis Batch: 69505

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	10.19		mg/L		102	90 - 110
Fluoride	10.0	10.83		mg/L		108	90 - 110
Sulfate	10.0	9.867		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-69505/7

Matrix: Water

Analysis Batch: 69505

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	10.22		mg/L		102	90 - 110	0	20
Fluoride	10.0	10.88		mg/L		109	90 - 110	0	20
Sulfate	10.0	9.927		mg/L		99	90 - 110	1	20

Lab Sample ID: LLCS 860-69505/5

Matrix: Water

Analysis Batch: 69505

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	0.5330		mg/L		107	50 - 150
Fluoride	0.500	0.5088		mg/L		102	50 - 150
Sulfate	0.500	0.5727		mg/L		115	50 - 150

Lab Sample ID: 880-19307-1 MS

Matrix: Water

Analysis Batch: 69505

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	86.4		10.0	95.70	4	mg/L		93	90 - 110
Fluoride	0.835	F1	10.0	2.704	F1	mg/L		19	90 - 110
Sulfate	33.4	B F1	10.0	41.51	F1	mg/L		81	90 - 110

Lab Sample ID: 880-19307-1 MSD

Matrix: Water

Analysis Batch: 69505

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	86.4		10.0	95.88	4	mg/L		95	90 - 110	0	20
Fluoride	0.835	F1	10.0	2.756	F1	mg/L		19	90 - 110	2	20
Sulfate	33.4	B F1	10.0	41.61	F1	mg/L		82	90 - 110	0	20

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-69506/3

Matrix: Water

Analysis Batch: 69506

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			09/17/22 14:05	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/17/22 14:05	1

Lab Sample ID: LCS 860-69506/6

Matrix: Water

Analysis Batch: 69506

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	10.29		mg/L		103	80 - 120
Nitrite as N	5.00	5.292		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-69506/7

Matrix: Water

Analysis Batch: 69506

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	10.33		mg/L		103	80 - 120	0	20
Nitrite as N	5.00	5.343		mg/L		107	80 - 120	1	20

Lab Sample ID: LLCS 860-69506/4

Matrix: Water

Analysis Batch: 69506

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	0.1432		mg/L		143	50 - 150
Nitrite as N	0.100	0.1205		mg/L		120	50 - 150

Lab Sample ID: 880-19307-1 MS

Matrix: Water

Analysis Batch: 69506

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	0.0909	J H	10.0	10.07		mg/L		100	80 - 120
Nitrite as N	0.206	H F1	2.50	1.380	F1	mg/L		47	80 - 120

Lab Sample ID: 880-19307-1 MSD

Matrix: Water

Analysis Batch: 69506

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	0.0909	J H	10.0	10.08		mg/L		100	80 - 120	0	15
Nitrite as N	0.206	H F1	2.50	1.388	F1	mg/L		47	80 - 120	1	15

Lab Sample ID: MB 860-69744/3

Matrix: Water

Analysis Batch: 69744

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			09/20/22 19:01	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/20/22 19:01	1

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QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-69744/3

Matrix: Water

Analysis Batch: 69744

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109 mg/L			09/20/22 19:01	1

Lab Sample ID: LCS 860-69744/72

Matrix: Water

Analysis Batch: 69744

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	9.683		mg/L		97	90 - 110
Fluoride	10.0	10.13		mg/L		101	90 - 110
Sulfate	10.0	9.361		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-69744/73

Matrix: Water

Analysis Batch: 69744

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	10.19		mg/L		102	90 - 110	5	20
Fluoride	10.0	10.64		mg/L		106	90 - 110	5	20
Sulfate	10.0	9.998		mg/L		100	90 - 110	7	20

Lab Sample ID: LLCS 860-69744/5

Matrix: Water

Analysis Batch: 69744

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	0.5235		mg/L		105	50 - 150
Fluoride	0.500	0.4561	J	mg/L		91	50 - 150
Sulfate	0.500	0.3231	J	mg/L		65	50 - 150

Lab Sample ID: MB 860-69745/3

Matrix: Water

Analysis Batch: 69745

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			09/20/22 19:01	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/20/22 19:01	1

Lab Sample ID: LCS 860-69745/72

Matrix: Water

Analysis Batch: 69745

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	9.534		mg/L		95	80 - 120
Nitrite as N	5.00	4.955		mg/L		99	80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-69745/73

Matrix: Water

Analysis Batch: 69745

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	9.850		mg/L		99	80 - 120		3	20
Nitrite as N	5.00	5.173		mg/L		103	80 - 120		4	20

Lab Sample ID: LLCS 860-69745/5

Matrix: Water

Analysis Batch: 69745

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	0.4922		mg/L		98	50 - 150	
Nitrite as N	0.500	0.4797		mg/L		96	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-69715/4

Matrix: Water

Analysis Batch: 69715

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	4.00 mg/L			09/19/22 11:42	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/19/22 11:42	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/19/22 11:42	1

Lab Sample ID: LCS 860-69715/5

Matrix: Water

Analysis Batch: 69715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Alkalinity	250	252.9		mg/L		101	85 - 115	

Lab Sample ID: LCSD 860-69715/6

Matrix: Water

Analysis Batch: 69715

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	251.0		mg/L		100	85 - 115		1	20

Lab Sample ID: 880-19307-1 DU

Matrix: Water

Analysis Batch: 69715

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Sample		DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
	Result	Qualifier						
Alkalinity	277		281.0		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	277		281.0		mg/L		1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-19307-1 DU

Matrix: Water

Analysis Batch: 69636

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.0	HF	7.0		SU		0.4	20
Temperature	18.6	HF	18.6		Degrees C		0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-70719/1

Matrix: Water

Analysis Batch: 70719

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			09/22/22 09:42	1

Lab Sample ID: LCS 860-70719/2

Matrix: Water

Analysis Batch: 70719

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	46.00		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-70719/3

Matrix: Water

Analysis Batch: 70719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfide	50.0	46.20		mg/L		92	80 - 120	0	20

Lab Sample ID: 880-19307-1 MS

Matrix: Water

Analysis Batch: 70719

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	0.800	J	50.0	44.20		mg/L		87	80 - 120

Lab Sample ID: 880-19307-1 MSD

Matrix: Water

Analysis Batch: 70719

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	Limit
Sulfide	0.800	J	50.0	44.40		mg/L		87	80 - 120	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 69535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	8260C	
880-19307-2	MW-2	Total/NA	Water	8260C	
MB 860-69535/9	Method Blank	Total/NA	Water	8260C	
LCS 860-69535/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-69535/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 68755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	8015 NM	
880-19307-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 69593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	8015B NM	69628
880-19307-2	MW-2	Total/NA	Water	8015B NM	69628
MB 860-69628/1-A	Method Blank	Total/NA	Water	8015B NM	69628
MB 860-69628/1-A	Method Blank	Total/NA	Water	8015B NM	69628
LCS 860-69628/2-A	Lab Control Sample	Total/NA	Water	8015B NM	69628
LCSD 860-69628/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	69628
880-19307-2 MS	MW-2	Total/NA	Water	8015B NM	69628

Prep Batch: 69628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-19307-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-69628/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-69628/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-69628/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-19307-2 MS	MW-2	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 69505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	300.0	
880-19307-2	MW-2	Total/NA	Water	300.0	
MB 860-69505/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69505/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69505/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69505/5	Lab Control Sample	Total/NA	Water	300.0	
880-19307-1 MS	MW-1	Total/NA	Water	300.0	
880-19307-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 69506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	300.0	
880-19307-2	MW-2	Total/NA	Water	300.0	
MB 860-69506/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69506/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69506/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-19307-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 69506 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-69506/4	Lab Control Sample	Total/NA	Water	300.0	
880-19307-1 MS	MW-1	Total/NA	Water	300.0	
880-19307-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 69744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	300.0	
880-19307-2	MW-2	Total/NA	Water	300.0	
MB 860-69744/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69744/72	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69744/73	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69744/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 69745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-69745/3	Method Blank	Total/NA	Water	300.0	
LCS 860-69745/72	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-69745/73	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-69745/5	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 69440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-19307-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 69636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-19307-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-19307-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 69715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	SM 2320B	
880-19307-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-69715/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-69715/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-69715/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-19307-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 70719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19307-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-19307-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-70719/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-70719/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-70719/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-19307-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-19307-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-19307-1

Client Sample ID: MW-1

Date Collected: 09/15/22 13:00

Date Received: 09/16/22 08:30

Lab Sample ID: 880-19307-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	69535	NA	EET HOU	09/19/22 11:43
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/20/22 17:01
Total/NA	Prep	8015NM Aq Prep			69628	SAR	EET HOU	09/19/22 12:25
Total/NA	Analysis	8015B NM		1	69593	SAR	EET HOU	09/19/22 14:52
Total/NA	Analysis	300.0		1	69505	A1S	EET HOU	09/17/22 17:03
Total/NA	Analysis	300.0		1	69506	A1S	EET HOU	09/17/22 17:03
Total/NA	Analysis	300.0		1	69744	WP	EET HOU	09/20/22 22:38
Total/NA	Analysis	SM 2320B		1	69715	TL	EET HOU	09/19/22 12:08
Total/NA	Analysis	SM 4500 CO2 D		1	69440	AA	EET HOU	09/16/22 16:27
Total/NA	Analysis	SM 4500 H+ B		1	69636	TL	EET HOU	09/19/22 12:54
Total/NA	Analysis	SM 4500 S2 F		1	70719	SCI	EET HOU	09/22/22 09:42

Client Sample ID: MW-2

Date Collected: 09/15/22 14:35

Date Received: 09/16/22 08:30

Lab Sample ID: 880-19307-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	69535	NA	EET HOU	09/19/22 11:02
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/20/22 17:01
Total/NA	Prep	8015NM Aq Prep			69628	SAR	EET HOU	09/19/22 12:26
Total/NA	Analysis	8015B NM		1	69593	SAR	EET HOU	09/19/22 15:32
Total/NA	Analysis	300.0		1	69505	A1S	EET HOU	09/17/22 17:39
Total/NA	Analysis	300.0		1	69506	A1S	EET HOU	09/17/22 17:39
Total/NA	Analysis	300.0		1	69744	WP	EET HOU	09/20/22 22:49
Total/NA	Analysis	SM 2320B		1	69715	TL	EET HOU	09/19/22 12:34
Total/NA	Analysis	SM 4500 CO2 D		1	69440	AA	EET HOU	09/16/22 16:27
Total/NA	Analysis	SM 4500 H+ B		1	69636	TL	EET HOU	09/19/22 12:58
Total/NA	Analysis	SM 4500 S2 F		1	70719	SCI	EET HOU	09/22/22 09:42

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-19307-1

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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		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)
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: 880-19307-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

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:

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

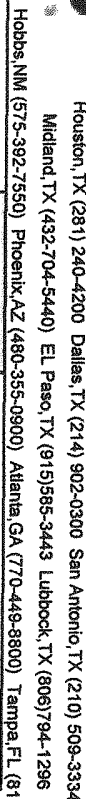
Sample Summary

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

Job ID: 880-19307-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19307-1	MW-1	Water	09/15/22 13:00	09/16/22 08:30
880-19307-2	MW-2	Water	09/15/22 14:35	09/16/22 08:30

- 1
- 2
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- 11
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Chain of Custody

Work Order No: 19307

Work Order Comments

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

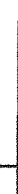
State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other ☐

[illegible][illegible]

Quality Environmental Containers
800-255-3950 • 304-255-3900

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 / 7474, 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				
1 		4/19/02 0830	2						
3 			4						
5			6						

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-19307-1

Login Number: 19307

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: 880-19307-1

Login Number: 19307

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 09/17/22 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: 880-19568-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobbs, 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:

10/4/2022 4:50:59 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-19568-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-19568-1
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
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.
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

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Definitions/Glossary

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

Job ID: 880-19568-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

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

Job ID: 880-19568-1
SDG: Hobbs NM

Job ID: 880-19568-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-19568-1

Receipt

The sample was received on 9/22/2022 4:00 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 1.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-70284 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-70388 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, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-70552 and analytical batch 860-70766 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

Method Cation_Anion: Anion/Cation balance above 10% due to sample matrix. Levey Well (880-19568-1)

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 Hobbs, NM - 03B1417001

Job ID: 880-19568-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19568-1

Date Collected: 09/22/22 11:30

Matrix: Water

Date Received: 09/22/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00245		0.00100	0.000533 mg/L			09/23/22 17:10	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			09/23/22 17:10	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			09/23/22 17:10	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			09/23/22 17:10	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			09/23/22 17:10	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			09/23/22 17:10	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			09/23/22 17:10	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			09/23/22 17:10	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			09/23/22 17:10	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			09/23/22 17:10	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			09/23/22 17:10	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			09/23/22 17:10	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			09/23/22 17:10	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			09/23/22 17:10	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			09/23/22 17:10	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			09/23/22 17:10	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			09/23/22 17:10	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			09/23/22 17:10	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			09/23/22 17:10	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			09/23/22 17:10	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			09/23/22 17:10	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			09/23/22 17:10	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			09/23/22 17:10	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			09/23/22 17:10	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			09/23/22 17:10	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			09/23/22 17:10	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			09/23/22 17:10	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			09/23/22 17:10	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			09/23/22 17:10	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			09/23/22 17:10	1
Ethylbenzene	0.00866		0.00100	0.000411 mg/L			09/23/22 17:10	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			09/23/22 17:10	1
Isopropylbenzene	0.00424		0.00100	0.000613 mg/L			09/23/22 17:10	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			09/23/22 17:10	1
m,p-Xylenes	0.0354		0.0100	0.00124 mg/L			09/23/22 17:10	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			09/23/22 17:10	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			09/23/22 17:10	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			09/23/22 17:10	1
N-Propylbenzene	0.00193		0.00100	0.000498 mg/L			09/23/22 17:10	1
o-Xylene	0.00543		0.00100	0.000551 mg/L			09/23/22 17:10	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			09/23/22 17:10	1
sec-Butylbenzene	0.000740 J		0.00100	0.000468 mg/L			09/23/22 17:10	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			09/23/22 17:10	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			09/23/22 17:10	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			09/23/22 17:10	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			09/23/22 17:10	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			09/23/22 17:10	1
Toluene	0.0186		0.00100	0.000475 mg/L			09/23/22 17:10	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			09/23/22 17:10	1

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Client Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19568-1

Date Collected: 09/22/22 11:30

Matrix: Water

Date Received: 09/22/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 17:10	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/23/22 17:10	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/23/22 17:10	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/23/22 17:10	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/23/22 17:10	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/23/22 17:10	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/23/22 17:10	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/23/22 17:10	1
1,2,4-Trimethylbenzene	0.00734		0.00100	0.000417 mg/L			09/23/22 17:10	1
1,3,5-Trimethylbenzene	0.00250		0.00100	0.000456 mg/L			09/23/22 17:10	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/23/22 17:10	1
Xylenes, Total	0.0408		0.0100	0.00124 mg/L			09/23/22 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 124		09/23/22 17:10	1
Dibromofluoromethane (Surr)	97		75 - 131		09/23/22 17:10	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/23/22 17:10	1
Toluene-d8 (Surr)	101		80 - 117		09/23/22 17:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.468	J	0.500	0.0711 mg/L			09/23/22 18:44	1
Nitrate as N	0.546		0.100	0.0391 mg/L			09/23/22 18:44	1
Chloride	217		0.500	0.200 mg/L			09/23/22 18:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/23/22 18:44	1
Fluoride	0.316	J	0.500	0.100 mg/L			09/23/22 18:44	1
Sulfate	52.8		0.500	0.109 mg/L			09/23/22 18:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	179		10.0	5.76 mg/L		09/26/22 10:00	09/26/22 18:40	50
Magnesium	39.9		0.200	0.0428 mg/L		09/26/22 10:00	09/26/22 18:22	1
Potassium	3.11		0.500	0.0914 mg/L		09/26/22 10:00	09/26/22 18:22	1
Sodium	66.4		0.500	0.152 mg/L		09/26/22 10:00	09/26/22 18:22	1
SiO2	66.3		1.07	0.471 mg/L		09/26/22 10:00	09/26/22 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-17.7			%			09/28/22 11:33	1
Alkalinity	613		4.00	4.00 mg/L			09/23/22 16:08	1
Bicarbonate Alkalinity as CaCO3	613		4.00	4.00 mg/L			09/23/22 16:08	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/23/22 16:08	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			09/23/22 16:08	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			09/23/22 16:08	1
Total Dissolved Solids	1250		20.0	20.0 mg/L			09/23/22 14:07	1
pH	6.4	HF		SU			09/23/22 17:58	1
Temperature	21.8	HF		Degrees C			09/23/22 17:58	1

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Surrogate Summary

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

Job ID: 880-19568-1
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)
830-2361-D-1 MS	Matrix Spike	97	99	101	99
880-19568-1	Levey Well	93	97	103	101
LCS 860-70284/3	Lab Control Sample	97	100	99	100
LCSD 860-70284/4	Lab Control Sample Dup	96	99	99	97
MB 860-70284/9	Method Blank	99	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
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-70284/9

Matrix: Water

Analysis Batch: 70284

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/23/22 12:44	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/23/22 12:44	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/23/22 12:44	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/23/22 12:44	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/23/22 12:44	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/23/22 12:44	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/23/22 12:44	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/23/22 12:44	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/23/22 12:44	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/23/22 12:44	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/23/22 12:44	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/23/22 12:44	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/23/22 12:44	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/23/22 12:44	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/23/22 12:44	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/23/22 12:44	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/23/22 12:44	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 12:44	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/23/22 12:44	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/23/22 12:44	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/23/22 12:44	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/23/22 12:44	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/23/22 12:44	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/23/22 12:44	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/23/22 12:44	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/23/22 12:44	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/23/22 12:44	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/23/22 12:44	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/23/22 12:44	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/23/22 12:44	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/23/22 12:44	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/23/22 12:44	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/23/22 12:44	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/23/22 12:44	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/23/22 12:44	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/23/22 12:44	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/23/22 12:44	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/23/22 12:44	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/23/22 12:44	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/23/22 12:44	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/23/22 12:44	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/23/22 12:44	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/23/22 12:44	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/23/22 12:44	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/23/22 12:44	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/23/22 12:44	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/23/22 12:44	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/23/22 12:44	1

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QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-70284/9

Matrix: Water

Analysis Batch: 70284

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	<0.000945	U	0.00100	0.000945 mg/L			09/23/22 12:44	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 12:44	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/23/22 12:44	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/23/22 12:44	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/23/22 12:44	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/23/22 12:44	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/23/22 12:44	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/23/22 12:44	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/23/22 12:44	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/23/22 12:44	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/23/22 12:44	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/23/22 12:44	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/23/22 12:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		09/23/22 12:44	1
Dibromofluoromethane (Surr)	98		75 - 131		09/23/22 12:44	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/23/22 12:44	1
Toluene-d8 (Surr)	100		80 - 117		09/23/22 12:44	1

Lab Sample ID: LCS 860-70284/3

Matrix: Water

Analysis Batch: 70284

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	0.05158		mg/L		103	75 - 125
Bromobenzene	0.0500	0.04940		mg/L		99	75 - 125
Bromochloromethane	0.0500	0.04938		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.05141		mg/L		103	75 - 125
Bromoform	0.0500	0.05027		mg/L		101	70 - 130
Bromomethane	0.0500	0.05474		mg/L		109	60 - 140
2-Butanone	0.250	0.2338		mg/L		94	60 - 140
Carbon tetrachloride	0.0500	0.05355		mg/L		107	70 - 130
Chlorobenzene	0.0500	0.05199		mg/L		104	65 - 135
Chloroethane	0.0500	0.05210		mg/L		104	60 - 140
Chloroform	0.0500	0.05232		mg/L		105	70 - 121
Chloromethane	0.0500	0.04319		mg/L		86	60 - 140
2-Chlorotoluene	0.0500	0.05063		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05088		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05147		mg/L		103	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05170		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.05091		mg/L		102	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04979		mg/L		100	59 - 125
1,2-Dibromoethane	0.0500	0.04934		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04959		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04936		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.04908		mg/L		98	75 - 125
Dichlorodifluoromethane	0.0500	0.03762		mg/L		75	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-70284/3

Matrix: Water

Analysis Batch: 70284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05242		mg/L		105	70 - 130
1,2-Dichloroethane	0.0500	0.04966		mg/L		99	72 - 130
1,1-Dichloroethene	0.0500	0.05254		mg/L		105	50 - 150
1,2-Dichloropropane	0.0500	0.05135		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.04992		mg/L		100	75 - 125
2,2-Dichloropropane	0.0500	0.05407		mg/L		108	75 - 125
1,1-Dichloropropene	0.0500	0.05263		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05449		mg/L		109	75 - 125
Hexachlorobutadiene	0.0500	0.04800		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.05660		mg/L		113	75 - 125
Methylene Chloride	0.0500	0.04613		mg/L		92	75 - 125
m,p-Xylenes	0.0500	0.05451		mg/L		109	75 - 125
MTBE	0.0500	0.04969		mg/L		99	65 - 135
Naphthalene	0.0500	0.05929		mg/L		119	70 - 130
n-Butylbenzene	0.0500	0.05298		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.05211		mg/L		104	75 - 125
o-Xylene	0.0500	0.05384		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05451		mg/L		109	75 - 125
sec-Butylbenzene	0.0500	0.05392		mg/L		108	75 - 125
Styrene	0.0500	0.05337		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05373		mg/L		107	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05187		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04823		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.05688		mg/L		114	71 - 125
Toluene	0.0500	0.05171		mg/L		103	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05316		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05153		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06072		mg/L		121	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05135		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.05324		mg/L		106	70 - 130
1,1,2-Trichloroethane	0.0500	0.05008		mg/L		100	70 - 130
Trichloroethene	0.0500	0.05310		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.05690		mg/L		114	60 - 140
1,2,3-Trichloropropane	0.0500	0.04623		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05343		mg/L		107	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05272		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.04767		mg/L		95	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-70284/4

Matrix: Water

Analysis Batch: 70284

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	0.05114		mg/L		102	75 - 125	1	25
Bromobenzene	0.0500	0.04839		mg/L		97	75 - 125	2	25
Bromochloromethane	0.0500	0.04933		mg/L		99	60 - 140	0	25
Bromodichloromethane	0.0500	0.05106		mg/L		102	75 - 125	1	25
Bromoform	0.0500	0.04851		mg/L		97	70 - 130	4	25
Bromomethane	0.0500	0.05199		mg/L		104	60 - 140	5	25
2-Butanone	0.250	0.2277		mg/L		91	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05446		mg/L		109	70 - 130	2	25
Chlorobenzene	0.0500	0.05102		mg/L		102	65 - 135	2	25
Chloroethane	0.0500	0.05202		mg/L		104	60 - 140	0	25
Chloroform	0.0500	0.05269		mg/L		105	70 - 121	1	25
Chloromethane	0.0500	0.04350		mg/L		87	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04984		mg/L		100	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05066		mg/L		101	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.05069		mg/L		101	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05099		mg/L		102	74 - 125	1	25
Dibromochloromethane	0.0500	0.04997		mg/L		100	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04646		mg/L		93	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.04815		mg/L		96	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04855		mg/L		97	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04834		mg/L		97	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04839		mg/L		97	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03866		mg/L		77	70 - 130	3	25
1,1-Dichloroethane	0.0500	0.05143		mg/L		103	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.04900		mg/L		98	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05392		mg/L		108	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05082		mg/L		102	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04822		mg/L		96	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05432		mg/L		109	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.05327		mg/L		107	75 - 125	1	25
Ethylbenzene	0.0500	0.05468		mg/L		109	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.04921		mg/L		98	75 - 125	2	25
Isopropylbenzene	0.0500	0.05671		mg/L		113	75 - 125	0	25
Methylene Chloride	0.0500	0.04705		mg/L		94	75 - 125	2	25
m,p-Xylenes	0.0500	0.05524		mg/L		110	75 - 125	1	25
MTBE	0.0500	0.04905		mg/L		98	65 - 135	1	25
Naphthalene	0.0500	0.05221		mg/L		104	70 - 130	13	25
n-Butylbenzene	0.0500	0.05313		mg/L		106	75 - 125	0	25
N-Propylbenzene	0.0500	0.05270		mg/L		105	75 - 125	1	25
o-Xylene	0.0500	0.05386		mg/L		108	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05549		mg/L		111	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05426		mg/L		109	75 - 125	1	25
Styrene	0.0500	0.05319		mg/L		106	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05406		mg/L		108	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05186		mg/L		104	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04509		mg/L		90	74 - 125	7	25
Tetrachloroethene	0.0500	0.05689		mg/L		114	71 - 125	0	25
Toluene	0.0500	0.05246		mg/L		105	70 - 130	1	25

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QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-70284/4

Matrix: Water

Analysis Batch: 70284

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	0.05455		mg/L		109	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.05069		mg/L		101	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05490		mg/L		110	75 - 137	10	25
1,2,4-Trichlorobenzene	0.0500	0.04945		mg/L		99	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.05395		mg/L		108	70 - 130	1	25
1,1,2-Trichloroethane	0.0500	0.04879		mg/L		98	70 - 130	3	25
Trichloroethene	0.0500	0.05405		mg/L		108	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05987		mg/L		120	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04437		mg/L		89	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.05247		mg/L		105	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05287		mg/L		106	60 - 140	0	25
Vinyl chloride	0.0500	0.04917		mg/L		98	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-70388/3

Matrix: Water

Analysis Batch: 70388

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			09/23/22 09:44	1
Chloride	<0.200	U	0.500	0.200 mg/L			09/23/22 09:44	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/23/22 09:44	1
Sulfate	<0.109	U	0.500	0.109 mg/L			09/23/22 09:44	1

Lab Sample ID: LCS 860-70388/6

Matrix: Water

Analysis Batch: 70388

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	9.387		mg/L		94	90 - 110
Chloride	10.0	9.776		mg/L		98	90 - 110
Fluoride	10.0	10.40		mg/L		104	90 - 110
Sulfate	10.0	10.42		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-70388/7

Matrix: Water

Analysis Batch: 70388

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	9.441		mg/L		94	90 - 110	1	20
Chloride	10.0	9.787		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.43		mg/L		104	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-70388/7

Matrix: Water

Analysis Batch: 70388

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	10.44		mg/L		104	90 - 110	0	20

Lab Sample ID: LLCS 860-70388/5

Matrix: Water

Analysis Batch: 70388

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	0.5154		mg/L		103	50 - 150		
Chloride	0.500	0.5019		mg/L		100	50 - 150		
Fluoride	0.500	0.4418	J	mg/L		88	50 - 150		
Sulfate	0.500	0.4340	J	mg/L		87	50 - 150		

Lab Sample ID: MB 860-70389/3

Matrix: Water

Analysis Batch: 70389

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			09/23/22 09:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/23/22 09:44	1

Lab Sample ID: LCS 860-70389/6

Matrix: Water

Analysis Batch: 70389

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	9.528		mg/L		95	80 - 120		
Nitrite as N	5.00	5.159		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-70389/7

Matrix: Water

Analysis Batch: 70389

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	9.521		mg/L		95	80 - 120	0	20
Nitrite as N	5.00	5.167		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCS 860-70389/4

Matrix: Water

Analysis Batch: 70389

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	0.1141		mg/L		114	50 - 150		
Nitrite as N	0.100	0.05964	J	mg/L		60	50 - 150		

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QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-70552/1-A

Matrix: Water

Analysis Batch: 70766

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 70552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		09/26/22 10:00	09/26/22 18:11	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		09/26/22 10:00	09/26/22 18:11	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		09/26/22 10:00	09/26/22 18:11	1
Sodium	<0.152	U	0.500	0.152 mg/L		09/26/22 10:00	09/26/22 18:11	1
SiO2	<0.471	U	1.07	0.471 mg/L		09/26/22 10:00	09/26/22 18:11	1

Lab Sample ID: LCS 860-70552/2-A

Matrix: Water

Analysis Batch: 70766

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 70552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.00		mg/L		100	85 - 115
Magnesium	25.0	24.80		mg/L		99	85 - 115
Potassium	10.0	10.10		mg/L		101	85 - 115
Sodium	25.0	25.10		mg/L		100	85 - 115
SiO2	21.4	22.26		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-70552/3-A

Matrix: Water

Analysis Batch: 70766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 70552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.10		mg/L		100	85 - 115	0	20
Magnesium	25.0	24.90		mg/L		100	85 - 115	0	20
Potassium	10.0	10.10		mg/L		101	85 - 115	0	20
Sodium	25.0	25.20		mg/L		101	85 - 115	0	20
SiO2	21.4	22.68		mg/L		106	85 - 115	2	20

Lab Sample ID: LLCS 860-70552/4-A

Matrix: Water

Analysis Batch: 70766

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 70552

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1850	J	mg/L		93	50 - 150
Magnesium	0.200	0.1940	J	mg/L		97	50 - 150
Potassium	0.500	0.5010		mg/L		100	50 - 150
Sodium	0.500	0.4450	J	mg/L		89	50 - 150
SiO2	1.07	1.051	J	mg/L		98	50 - 150

Lab Sample ID: 880-19568-1 MS

Matrix: Water

Analysis Batch: 70766

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 70552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	191	E	25.0	212.0	E 4	mg/L		84	70 - 130
Magnesium	39.9		25.0	63.40		mg/L		94	70 - 130
Potassium	3.11		10.0	13.50		mg/L		104	70 - 130
Sodium	66.4		25.0	90.00		mg/L		94	70 - 130
SiO2	66.3		21.4	86.88		mg/L		96	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: 880-19568-1 MSD

Matrix: Water

Analysis Batch: 70766

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 70552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	191	E	25.0	213.0	E 4	mg/L		88	70 - 130	0	20
Magnesium	39.9		25.0	63.60		mg/L		95	70 - 130	0	20
Potassium	3.11		10.0	13.40		mg/L		103	70 - 130	1	20
Sodium	66.4		25.0	90.40		mg/L		96	70 - 130	0	20
SiO2	66.3		21.4	88.17		mg/L		102	70 - 130	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-70468/4

Matrix: Water

Analysis Batch: 70468

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			09/23/22 15:05	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/23/22 15:05	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/23/22 15:05	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			09/23/22 15:05	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			09/23/22 15:05	1

Lab Sample ID: LCS 860-70468/5

Matrix: Water

Analysis Batch: 70468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	241.2		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-70468/6

Matrix: Water

Analysis Batch: 70468

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	243.1		mg/L		97	85 - 115	1	20

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

Lab Sample ID: MB 860-70404/1

Matrix: Water

Analysis Batch: 70404

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			09/23/22 14:07	1

Lab Sample ID: LCS 860-70404/2

Matrix: Water

Analysis Batch: 70404

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	956.0		mg/L		96	80 - 120

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QC Sample Results

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

Job ID: 880-19568-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-70404/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 70404											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	959.0		mg/L		96	80 - 120	0	10

Lab Sample ID: LLCS 860-70404/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 70404											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	<5.00	U	mg/L		70	50 - 150		

QC Association Summary

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

Job ID: 880-19568-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 70284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	8260C	
MB 860-70284/9	Method Blank	Total/NA	Water	8260C	
LCS 860-70284/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-70284/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 70388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	300.0	
MB 860-70388/3	Method Blank	Total/NA	Water	300.0	
LCS 860-70388/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-70388/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-70388/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 70389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	300.0	
MB 860-70389/3	Method Blank	Total/NA	Water	300.0	
LCS 860-70389/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-70389/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-70389/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 70552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-70552/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-70552/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-70552/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-70552/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-19568-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-19568-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 70766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	70552
880-19568-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	70552
MB 860-70552/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	70552
LCS 860-70552/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	70552
LCSD 860-70552/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	70552
LLCS 860-70552/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	70552
880-19568-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	70552
880-19568-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	70552

General Chemistry

Analysis Batch: 70404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-70404/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-19568-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 70404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-70404/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-70404/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-70404/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 70452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 70468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-70468/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-70468/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-70468/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 70938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19568-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-19568-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19568-1

Date Collected: 09/22/22 11:30

Matrix: Water

Date Received: 09/22/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	70284	NA	EET HOU	09/23/22 17:10
Total/NA	Analysis	300.0		1	70388	WP	EET HOU	09/23/22 18:44
Total/NA	Analysis	300.0		1	70389	WP	EET HOU	09/23/22 18:44
Total Recoverable	Prep	200.7			70552	MD	EET HOU	09/26/22 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	70766	DP	EET HOU	09/26/22 18:22
Total Recoverable	Prep	200.7			70552	MD	EET HOU	09/26/22 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	70766	DP	EET HOU	09/26/22 18:40
Total/NA	Analysis	SM 1030E		1	70938	AA	EET HOU	09/28/22 11:33
Total/NA	Analysis	SM 2320B		1	70468	TL	EET HOU	09/23/22 16:08
Total/NA	Analysis	SM 2540C		1	70404	MCA	EET HOU	09/23/22 14:07
Total/NA	Analysis	SM 4500 H+ B		1	70452	TL	EET HOU	09/23/22 17:58

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

Accreditation/Certification Summary

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

Job ID: 880-19568-1
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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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 Hobbs, NM - 03B1417001

Job ID: 880-19568-1
SDG: Hobbs NM

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

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:

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

Sample Summary

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

Job ID: 880-19568-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19568-1	Levey Well	Water	09/22/22 11:30	09/22/22 16:00

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- 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

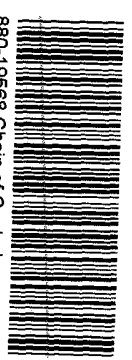
Work Order No: 19568

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marrenfeld #400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP	
Phone:	432-230-3344	Email:	bjenning@ensolum.com

Work Order Comments	
Program: UST/PT	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund
State of Project:	
Reporting Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ 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:	Shane Diller	Due Date			

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	17.9	Thermometer ID:	JPG		
Received Intact:	Yes ☒ No ☐	Correction Factor:	.20		
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:			

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	GW	5-22-22	1130	—	7	X	X	X	X	X	X	24 Hr
880-19568 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
1 <i>[Signature]</i>	2 <i>[Signature]</i>	9/22/22	3 <i>[Signature]</i>	4 <i>[Signature]</i>	1000
5	6				

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-19568-1

SDG Number: Hobbs NM

Login Number: 19568

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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.	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: 880-19568-1

SDG Number: Hobbs NM

Login Number: 19568

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 09/23/22 11:51 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: 880-19567-1

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:

9/27/2022 2:00:46 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
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: 880-19567-1

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Definitions/Glossary

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

Job ID: 880-19567-1

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: 880-19567-1

Job ID: 880-19567-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-19567-1

Receipt

The samples were received on 9/22/2022 4:00 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 1.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-70284 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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 860-70388 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: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19567-1

Date Collected: 09/22/22 11:45

Matrix: Water

Date Received: 09/22/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L		09/23/22 16:09	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		09/23/22 16:09	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		09/23/22 16:09	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		09/23/22 16:09	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		09/23/22 16:09	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		09/23/22 16:09	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		09/23/22 16:09	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		09/23/22 16:09	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		09/23/22 16:09	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		09/23/22 16:09	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		09/23/22 16:09	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		09/23/22 16:09	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		09/23/22 16:09	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		09/23/22 16:09	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		09/23/22 16:09	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		09/23/22 16:09	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		09/23/22 16:09	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		09/23/22 16:09	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		09/23/22 16:09	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		09/23/22 16:09	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/23/22 16:09	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		09/23/22 16:09	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		09/23/22 16:09	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		09/23/22 16:09	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		09/23/22 16:09	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		09/23/22 16:09	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		09/23/22 16:09	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		09/23/22 16:09	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		09/23/22 16:09	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		09/23/22 16:09	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		09/23/22 16:09	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		09/23/22 16:09	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		09/23/22 16:09	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		09/23/22 16:09	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		09/23/22 16:09	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		09/23/22 16:09	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		09/23/22 16:09	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		09/23/22 16:09	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		09/23/22 16:09	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		09/23/22 16:09	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		09/23/22 16:09	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		09/23/22 16:09	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		09/23/22 16:09	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		09/23/22 16:09	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		09/23/22 16:09	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		09/23/22 16:09	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		09/23/22 16:09	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		09/23/22 16:09	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		09/23/22 16:09	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19567-1

Date Collected: 09/22/22 11:45

Matrix: Water

Date Received: 09/22/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 16:09	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/23/22 16:09	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/23/22 16:09	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/23/22 16:09	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/23/22 16:09	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/23/22 16:09	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/23/22 16:09	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/23/22 16:09	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/23/22 16:09	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/23/22 16:09	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/23/22 16:09	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/23/22 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		09/23/22 16:09	1
Dibromofluoromethane (Surr)	99		75 - 131		09/23/22 16:09	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		09/23/22 16:09	1
Toluene-d8 (Surr)	101		80 - 117		09/23/22 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.944	U	4.78	0.944 mg/L			09/24/22 16:37	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	<0.944	U	4.78	0.944	mg/L	09/23/22 18:53	09/24/22 03:41	1
Diesel Range Organics (Over C10-C28)	<0.944	U	4.78	0.944	mg/L	09/23/22 18:53	09/24/22 03:41	1
Oil Range Organics (Over C28-C36)	<0.911	U	4.78	0.911	mg/L	09/23/22 18:53	09/24/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135			09/23/22 18:53	09/24/22 03:41	1
o-Terphenyl	109		70 - 135			09/23/22 18:53	09/24/22 03:41	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.8		0.500	0.200 mg/L			09/23/22 18:56	1
Nitrate as N	0.518		0.100	0.0391 mg/L			09/23/22 18:56	1
Fluoride	0.585		0.500	0.100 mg/L			09/23/22 18:56	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/23/22 18:56	1
Sulfate	38.4		0.500	0.109 mg/L			09/23/22 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	280		4.00	4.00 mg/L			09/23/22 15:32	1
Bicarbonate Alkalinity as CaCO3	280		4.00	4.00 mg/L			09/23/22 15:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/23/22 15:32	1
Carbon dioxide	274			mg/L			09/27/22 13:41	1
Carbon Dioxide, Free	28.0			mg/L			09/27/22 13:41	1
pH	7.3	HF		SU			09/23/22 17:53	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19567-1

Date Collected: 09/22/22 11:45

Matrix: Water

Date Received: 09/22/22 16:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	21.0	HF		Degrees C			09/23/22 17:53	1
Sulfide	<0.495	U	5.00	0.495 mg/L			09/26/22 10:43	1

Client Sample ID: MW-2

Lab Sample ID: 880-19567-2

Date Collected: 09/22/22 13:10

Matrix: Water

Date Received: 09/22/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0208		0.00100	0.000533 mg/L			09/23/22 16:29	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/23/22 16:29	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/23/22 16:29	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/23/22 16:29	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/23/22 16:29	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/23/22 16:29	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/23/22 16:29	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/23/22 16:29	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/23/22 16:29	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/23/22 16:29	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/23/22 16:29	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/23/22 16:29	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/23/22 16:29	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/23/22 16:29	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/23/22 16:29	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/23/22 16:29	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/23/22 16:29	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 16:29	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/23/22 16:29	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/23/22 16:29	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/23/22 16:29	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/23/22 16:29	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/23/22 16:29	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/23/22 16:29	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/23/22 16:29	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/23/22 16:29	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/23/22 16:29	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/23/22 16:29	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/23/22 16:29	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/23/22 16:29	1
Ethylbenzene	0.0289		0.00100	0.000411 mg/L			09/23/22 16:29	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/23/22 16:29	1
Isopropylbenzene	0.0127		0.00100	0.000613 mg/L			09/23/22 16:29	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/23/22 16:29	1
m,p-Xylenes	0.139		0.0100	0.00124 mg/L			09/23/22 16:29	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/23/22 16:29	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/23/22 16:29	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/23/22 16:29	1
N-Propylbenzene	0.00361		0.00100	0.000498 mg/L			09/23/22 16:29	1
o-Xylene	0.0139		0.00100	0.000551 mg/L			09/23/22 16:29	1
p-Cymene (p-Isopropyltoluene)	0.000992	J	0.00100	0.000919 mg/L			09/23/22 16:29	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-19567-2

Date Collected: 09/22/22 13:10

Matrix: Water

Date Received: 09/22/22 16:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.00137		0.00100	0.000468 mg/L			09/23/22 16:29	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/23/22 16:29	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/23/22 16:29	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/23/22 16:29	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/23/22 16:29	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/23/22 16:29	1
Toluene	0.00243		0.00100	0.000475 mg/L			09/23/22 16:29	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/23/22 16:29	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 16:29	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/23/22 16:29	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/23/22 16:29	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/23/22 16:29	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/23/22 16:29	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/23/22 16:29	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/23/22 16:29	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/23/22 16:29	1
1,2,4-Trimethylbenzene	0.0393		0.00100	0.000417 mg/L			09/23/22 16:29	1
1,3,5-Trimethylbenzene	0.00971		0.00100	0.000456 mg/L			09/23/22 16:29	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/23/22 16:29	1
Xylenes, Total	0.153		0.0100	0.00124 mg/L			09/23/22 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		09/23/22 16:29	1
Dibromofluoromethane (Surr)	97		75 - 131		09/23/22 16:29	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/23/22 16:29	1
Toluene-d8 (Surr)	102		80 - 117		09/23/22 16:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.56	J	5.30	1.05 mg/L			09/24/22 16:37	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	1.56	J	5.30	1.05 mg/L		09/23/22 18:53	09/24/22 04:00	1
Diesel Range Organics (Over C10-C28)	<1.05	U	5.30	1.05 mg/L		09/23/22 18:53	09/24/22 04:00	1
Oil Range Organics (Over C28-C36)	<1.01	U	5.30	1.01 mg/L		09/23/22 18:53	09/24/22 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135	09/23/22 18:53	09/24/22 04:00	1
o-Terphenyl	102		70 - 135	09/23/22 18:53	09/24/22 04:00	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.4		0.500	0.200 mg/L			09/23/22 19:07	1
Nitrate as N	0.650		0.100	0.0391 mg/L			09/23/22 19:07	1
Fluoride	0.260	J	0.500	0.100 mg/L			09/23/22 19:07	1
Nitrite as N	0.481		0.100	0.0293 mg/L			09/23/22 19:07	1
Sulfate	105		0.500	0.109 mg/L			09/23/22 19:07	1

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Client Sample Results

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

Job ID: 880-19567-1

Client Sample ID: MW-2
Date Collected: 09/22/22 13:10
Date Received: 09/22/22 16:00

Lab Sample ID: 880-19567-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1320		4.00	4.00	mg/L			09/23/22 15:57	1
Bicarbonate Alkalinity as CaCO3	1320		4.00	4.00	mg/L			09/23/22 15:57	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			09/23/22 15:57	1
Carbon dioxide	2480				mg/L			09/27/22 13:46	1
Carbon Dioxide, Free	1320				mg/L			09/27/22 13:46	1
pH	6.3	HF			SU			09/23/22 17:55	1
Temperature	20.9	HF			Degrees C			09/23/22 17:55	1
Sulfide	<0.495	U	5.00	0.495	mg/L			09/26/22 10:43	1

Surrogate Summary

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

Job ID: 880-19567-1

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)
830-2361-D-1 MS	Matrix Spike	97	99	101	99
880-19567-1	MW-1	97	99	106	101
880-19567-2	MW-2	94	97	103	102
LCS 860-70284/3	Lab Control Sample	97	100	99	100
LCSD 860-70284/4	Lab Control Sample Dup	96	99	99	97
MB 860-70284/9	Method Blank	99	98	101	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-19567-1	MW-1	97	109
880-19567-2	MW-2	89	102
LCS 860-70461/2-A	Lab Control Sample	91	112
LCSD 860-70461/3-A	Lab Control Sample Dup	88	107
MB 860-70461/1-A	Method Blank	97	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-70284/9

Matrix: Water

Analysis Batch: 70284

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/23/22 12:44	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/23/22 12:44	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/23/22 12:44	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/23/22 12:44	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/23/22 12:44	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/23/22 12:44	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/23/22 12:44	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/23/22 12:44	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/23/22 12:44	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/23/22 12:44	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/23/22 12:44	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/23/22 12:44	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/23/22 12:44	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/23/22 12:44	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/23/22 12:44	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/23/22 12:44	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/23/22 12:44	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 12:44	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/23/22 12:44	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/23/22 12:44	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/23/22 12:44	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/23/22 12:44	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/23/22 12:44	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/23/22 12:44	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/23/22 12:44	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/23/22 12:44	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/23/22 12:44	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/23/22 12:44	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/23/22 12:44	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/23/22 12:44	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/23/22 12:44	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/23/22 12:44	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/23/22 12:44	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/23/22 12:44	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/23/22 12:44	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/23/22 12:44	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/23/22 12:44	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/23/22 12:44	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/23/22 12:44	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/23/22 12:44	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/23/22 12:44	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/23/22 12:44	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/23/22 12:44	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/23/22 12:44	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/23/22 12:44	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/23/22 12:44	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/23/22 12:44	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/23/22 12:44	1

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QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-70284/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 70284

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/23/22 12:44	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/23/22 12:44	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/23/22 12:44	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/23/22 12:44	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/23/22 12:44	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/23/22 12:44	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/23/22 12:44	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/23/22 12:44	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/23/22 12:44	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/23/22 12:44	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/23/22 12:44	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/23/22 12:44	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/23/22 12:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		09/23/22 12:44	1
Dibromofluoromethane (Surr)	98		75 - 131		09/23/22 12:44	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/23/22 12:44	1
Toluene-d8 (Surr)	100		80 - 117		09/23/22 12:44	1

Lab Sample ID: LCS 860-70284/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 70284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05158		mg/L		103	75 - 125
Bromobenzene	0.0500	0.04940		mg/L		99	75 - 125
Bromochloromethane	0.0500	0.04938		mg/L		99	60 - 140
Bromodichloromethane	0.0500	0.05141		mg/L		103	75 - 125
Bromoform	0.0500	0.05027		mg/L		101	70 - 130
Bromomethane	0.0500	0.05474		mg/L		109	60 - 140
2-Butanone	0.250	0.2338		mg/L		94	60 - 140
Carbon tetrachloride	0.0500	0.05355		mg/L		107	70 - 130
Chlorobenzene	0.0500	0.05199		mg/L		104	65 - 135
Chloroethane	0.0500	0.05210		mg/L		104	60 - 140
Chloroform	0.0500	0.05232		mg/L		105	70 - 121
Chloromethane	0.0500	0.04319		mg/L		86	60 - 140
2-Chlorotoluene	0.0500	0.05063		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05088		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05147		mg/L		103	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05170		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.05091		mg/L		102	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04979		mg/L		100	59 - 125
1,2-Dibromoethane	0.0500	0.04934		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04959		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04936		mg/L		99	75 - 125
1,4-Dichlorobenzene	0.0500	0.04908		mg/L		98	75 - 125
Dichlorodifluoromethane	0.0500	0.03762		mg/L		75	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-70284/3

Matrix: Water

Analysis Batch: 70284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05242		mg/L		105	70 - 130
1,2-Dichloroethane	0.0500	0.04966		mg/L		99	72 - 130
1,1-Dichloroethene	0.0500	0.05254		mg/L		105	50 - 150
1,2-Dichloropropane	0.0500	0.05135		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.04992		mg/L		100	75 - 125
2,2-Dichloropropane	0.0500	0.05407		mg/L		108	75 - 125
1,1-Dichloropropene	0.0500	0.05263		mg/L		105	75 - 125
Ethylbenzene	0.0500	0.05449		mg/L		109	75 - 125
Hexachlorobutadiene	0.0500	0.04800		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.05660		mg/L		113	75 - 125
Methylene Chloride	0.0500	0.04613		mg/L		92	75 - 125
m,p-Xylenes	0.0500	0.05451		mg/L		109	75 - 125
MTBE	0.0500	0.04969		mg/L		99	65 - 135
Naphthalene	0.0500	0.05929		mg/L		119	70 - 130
n-Butylbenzene	0.0500	0.05298		mg/L		106	75 - 125
N-Propylbenzene	0.0500	0.05211		mg/L		104	75 - 125
o-Xylene	0.0500	0.05384		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05451		mg/L		109	75 - 125
sec-Butylbenzene	0.0500	0.05392		mg/L		108	75 - 125
Styrene	0.0500	0.05337		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05373		mg/L		107	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05187		mg/L		104	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04823		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.05688		mg/L		114	71 - 125
Toluene	0.0500	0.05171		mg/L		103	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05316		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05153		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.06072		mg/L		121	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05135		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.05324		mg/L		106	70 - 130
1,1,2-Trichloroethane	0.0500	0.05008		mg/L		100	70 - 130
Trichloroethene	0.0500	0.05310		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.05690		mg/L		114	60 - 140
1,2,3-Trichloropropane	0.0500	0.04623		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05343		mg/L		107	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05272		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.04767		mg/L		95	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-70284/4

Matrix: Water

Analysis Batch: 70284

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	0.05114		mg/L		102	75 - 125	1	25
Bromobenzene	0.0500	0.04839		mg/L		97	75 - 125	2	25
Bromochloromethane	0.0500	0.04933		mg/L		99	60 - 140	0	25
Bromodichloromethane	0.0500	0.05106		mg/L		102	75 - 125	1	25
Bromoform	0.0500	0.04851		mg/L		97	70 - 130	4	25
Bromomethane	0.0500	0.05199		mg/L		104	60 - 140	5	25
2-Butanone	0.250	0.2277		mg/L		91	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05446		mg/L		109	70 - 130	2	25
Chlorobenzene	0.0500	0.05102		mg/L		102	65 - 135	2	25
Chloroethane	0.0500	0.05202		mg/L		104	60 - 140	0	25
Chloroform	0.0500	0.05269		mg/L		105	70 - 121	1	25
Chloromethane	0.0500	0.04350		mg/L		87	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04984		mg/L		100	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05066		mg/L		101	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.05069		mg/L		101	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05099		mg/L		102	74 - 125	1	25
Dibromochloromethane	0.0500	0.04997		mg/L		100	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04646		mg/L		93	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.04815		mg/L		96	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04855		mg/L		97	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04834		mg/L		97	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04839		mg/L		97	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03866		mg/L		77	70 - 130	3	25
1,1-Dichloroethane	0.0500	0.05143		mg/L		103	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.04900		mg/L		98	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05392		mg/L		108	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05082		mg/L		102	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04822		mg/L		96	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05432		mg/L		109	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.05327		mg/L		107	75 - 125	1	25
Ethylbenzene	0.0500	0.05468		mg/L		109	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.04921		mg/L		98	75 - 125	2	25
Isopropylbenzene	0.0500	0.05671		mg/L		113	75 - 125	0	25
Methylene Chloride	0.0500	0.04705		mg/L		94	75 - 125	2	25
m,p-Xylenes	0.0500	0.05524		mg/L		110	75 - 125	1	25
MTBE	0.0500	0.04905		mg/L		98	65 - 135	1	25
Naphthalene	0.0500	0.05221		mg/L		104	70 - 130	13	25
n-Butylbenzene	0.0500	0.05313		mg/L		106	75 - 125	0	25
N-Propylbenzene	0.0500	0.05270		mg/L		105	75 - 125	1	25
o-Xylene	0.0500	0.05386		mg/L		108	75 - 125	0	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05549		mg/L		111	75 - 125	2	25
sec-Butylbenzene	0.0500	0.05426		mg/L		109	75 - 125	1	25
Styrene	0.0500	0.05319		mg/L		106	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05406		mg/L		108	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05186		mg/L		104	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04509		mg/L		90	74 - 125	7	25
Tetrachloroethene	0.0500	0.05689		mg/L		114	71 - 125	0	25
Toluene	0.0500	0.05246		mg/L		105	70 - 130	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-70284/4

Matrix: Water

Analysis Batch: 70284

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	0.05455		mg/L		109	75 - 125	3		25
trans-1,3-Dichloropropene	0.0500	0.05069		mg/L		101	66 - 125	2		25
1,2,3-Trichlorobenzene	0.0500	0.05490		mg/L		110	75 - 137	10		25
1,2,4-Trichlorobenzene	0.0500	0.04945		mg/L		99	75 - 135	4		25
1,1,1-Trichloroethane	0.0500	0.05395		mg/L		108	70 - 130	1		25
1,1,2-Trichloroethane	0.0500	0.04879		mg/L		98	70 - 130	3		25
Trichloroethene	0.0500	0.05405		mg/L		108	75 - 135	2		25
Trichlorofluoromethane	0.0500	0.05987		mg/L		120	60 - 140	5		25
1,2,3-Trichloropropane	0.0500	0.04437		mg/L		89	75 - 125	4		25
1,2,4-Trimethylbenzene	0.0500	0.05247		mg/L		105	75 - 125	2		25
1,3,5-Trimethylbenzene	0.0500	0.05287		mg/L		106	60 - 140	0		25
Vinyl chloride	0.0500	0.04917		mg/L		98	60 - 140	3		25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	97		80 - 117

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

Lab Sample ID: MB 860-70461/1-A

Matrix: Water

Analysis Batch: 70361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70461

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		09/23/22 18:53	09/24/22 03:23	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		09/23/22 18:53	09/24/22 03:23	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		09/23/22 18:53	09/24/22 03:23	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	97		70 - 135	09/23/22 18:53	09/24/22 03:23	1
o-Terphenyl	109		70 - 135	09/23/22 18:53	09/24/22 03:23	1

Lab Sample ID: LCS 860-70461/2-A

Matrix: Water

Analysis Batch: 70361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	99.9	117.0		mg/L		117	70 - 135	
Diesel Range Organics (Over C10-C28)	99.8	104.4		mg/L		105	70 - 135	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	91		70 - 135
o-Terphenyl	112		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-70461/3-A

Matrix: Water

Analysis Batch: 70361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70461

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.9	111.9		mg/L		112	70 - 135	5	35
Diesel Range Organics (Over C10-C28)	99.8	100.7		mg/L		101	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	88		70 - 135						
o-Terphenyl	107		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-70388/3

Matrix: Water

Analysis Batch: 70388

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	mg/L			09/23/22 09:44	1
Fluoride	<0.100	U	0.500	mg/L			09/23/22 09:44	1
Sulfate	<0.109	U	0.500	mg/L			09/23/22 09:44	1

Lab Sample ID: LCS 860-70388/6

Matrix: Water

Analysis Batch: 70388

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	9.776		mg/L		98	90 - 110
Fluoride	10.0	10.40		mg/L		104	90 - 110
Sulfate	10.0	10.42		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-70388/7

Matrix: Water

Analysis Batch: 70388

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	9.787		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.43		mg/L		104	90 - 110	0	20
Sulfate	10.0	10.44		mg/L		104	90 - 110	0	20

Lab Sample ID: LLCS 860-70388/5

Matrix: Water

Analysis Batch: 70388

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	0.5019		mg/L		100	50 - 150
Fluoride	0.500	0.4418	J	mg/L		88	50 - 150
Sulfate	0.500	0.4340	J	mg/L		87	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-70389/3

Matrix: Water

Analysis Batch: 70389

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			09/23/22 09:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/23/22 09:44	1

Lab Sample ID: LCS 860-70389/6

Matrix: Water

Analysis Batch: 70389

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	9.528		mg/L		95	80 - 120
Nitrite as N	5.00	5.159		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-70389/7

Matrix: Water

Analysis Batch: 70389

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	9.521		mg/L		95	80 - 120	0	20
Nitrite as N	5.00	5.167		mg/L		103	80 - 120	0	20

Lab Sample ID: LLCs 860-70389/4

Matrix: Water

Analysis Batch: 70389

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	0.1141		mg/L		114	50 - 150
Nitrite as N	0.100	0.05964	J	mg/L		60	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-70468/4

Matrix: Water

Analysis Batch: 70468

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			09/23/22 15:05	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/23/22 15:05	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/23/22 15:05	1

Lab Sample ID: LCS 860-70468/5

Matrix: Water

Analysis Batch: 70468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	241.2		mg/L		96	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-70468/6

Matrix: Water

Analysis Batch: 70468

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	243.1		mg/L		97	85 - 115	1	20

Lab Sample ID: 880-19567-1 DU

Matrix: Water

Analysis Batch: 70468

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	280		286.7		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	280		286.7		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-19567-2 DU

Matrix: Water

Analysis Batch: 70452

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.3	HF	6.2		SU		0.3	20
Temperature	20.9	HF	21.2		Degrees C		1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-70737/1

Matrix: Water

Analysis Batch: 70737

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			09/26/22 10:43	1

QC Association Summary

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 70284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	8260C	
880-19567-2	MW-2	Total/NA	Water	8260C	
MB 860-70284/9	Method Blank	Total/NA	Water	8260C	
LCS 860-70284/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-70284/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 68755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	8015 NM	
880-19567-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 70361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	8015B NM	70461
880-19567-2	MW-2	Total/NA	Water	8015B NM	70461
MB 860-70461/1-A	Method Blank	Total/NA	Water	8015B NM	70461
LCS 860-70461/2-A	Lab Control Sample	Total/NA	Water	8015B NM	70461
LCSD 860-70461/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	70461

Prep Batch: 70461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-19567-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-70461/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-70461/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-70461/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 70388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	300.0	
880-19567-2	MW-2	Total/NA	Water	300.0	
MB 860-70388/3	Method Blank	Total/NA	Water	300.0	
LCS 860-70388/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-70388/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-70388/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 70389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	300.0	
880-19567-2	MW-2	Total/NA	Water	300.0	
MB 860-70389/3	Method Blank	Total/NA	Water	300.0	
LCS 860-70389/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-70389/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-70389/4	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

General Chemistry

Analysis Batch: 70452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-19567-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-19567-2 DU	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 70468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	SM 2320B	
880-19567-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-70468/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-70468/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-70468/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-19567-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 70737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-19567-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-70737/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-70737/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-70737/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-19567-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-19567-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 70786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19567-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-19567-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Job ID: 880-19567-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19567-1

Date Collected: 09/22/22 11:45

Matrix: Water

Date Received: 09/22/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	70284	NA	EET HOU	09/23/22 16:09
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/24/22 16:37
Total/NA	Prep	8015NM Aq Prep			70461	SAR	EET HOU	09/23/22 18:53
Total/NA	Analysis	8015B NM		1	70361	SAR	EET HOU	09/24/22 03:41
Total/NA	Analysis	300.0		1	70388	WP	EET HOU	09/23/22 18:56
Total/NA	Analysis	300.0		1	70389	WP	EET HOU	09/23/22 18:56
Total/NA	Analysis	SM 2320B		1	70468	TL	EET HOU	09/23/22 15:32
Total/NA	Analysis	SM 4500 CO2 D		1	70786	JM	EET HOU	09/27/22 13:41
Total/NA	Analysis	SM 4500 H+ B		1	70452	TL	EET HOU	09/23/22 17:53
Total/NA	Analysis	SM 4500 S2 F		1	70737	SCI	EET HOU	09/26/22 10:43

Client Sample ID: MW-2

Lab Sample ID: 880-19567-2

Date Collected: 09/22/22 13:10

Matrix: Water

Date Received: 09/22/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	70284	NA	EET HOU	09/23/22 16:29
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/24/22 16:37
Total/NA	Prep	8015NM Aq Prep			70461	SAR	EET HOU	09/23/22 18:53
Total/NA	Analysis	8015B NM		1	70361	SAR	EET HOU	09/24/22 04:00
Total/NA	Analysis	300.0		1	70388	WP	EET HOU	09/23/22 19:07
Total/NA	Analysis	300.0		1	70389	WP	EET HOU	09/23/22 19:07
Total/NA	Analysis	SM 2320B		1	70468	TL	EET HOU	09/23/22 15:57
Total/NA	Analysis	SM 4500 CO2 D		1	70786	JM	EET HOU	09/27/22 13:46
Total/NA	Analysis	SM 4500 H+ B		1	70452	TL	EET HOU	09/23/22 17:55
Total/NA	Analysis	SM 4500 S2 F		1	70737	SCI	EET HOU	09/26/22 10:43

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-19567-1

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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		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)
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: 880-19567-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

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:

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

Sample Summary

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

Job ID: 880-19567-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19567-1	MW-1	Water	09/22/22 11:45	09/22/22 16:00
880-19567-2	MW-2	Water	09/22/22 13:10	09/22/22 16:00

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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)565-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813) 251-382-7550
Hobbs, NM (575-382-7550)

Chain of Custody

Work Order No: 1956

Project Manager:	Beaux Jennings	Bill to, (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marientfeld #400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email:	bjennings@ensolum.com

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

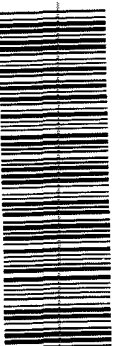
Project Name:	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine	☐
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name:	Shane Diller	Due Date	

SAMPLE RECEIPT			
Temperature (°C):	17.9	Temp Blank:	Yes No ☒ Wet log: Yes No ☒
Received Intact:	Yes No ☒	Thermometer ID	TPE
Cooler Custody Seals:	Yes No N/A ☒	Correction Factor:	20
Sample Custody Seals:	Yes No N/A ☒	Total Containers:	

ANALYSIS REQUEST						Work Order Notes
Number of Containers						
Reduced Carbon Dioxide 4500 CO2 c						
Reduced Sulfide SW-846 #376.2						
SW-846 #8260						
A Method #8015						
EPA Method #846 300						
SW-846 Method 150.1						
						TAT starts the day received by the lab if received by 4 30pm

[illegible]

880-19567 Chain of Custody



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

Sample Comments

24 Hr

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn 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
1 		9/22/22	2		
3 		1000	4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-19567-1

Login Number: 19567

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.	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: 880-19567-1

Login Number: 19567

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 09/23/22 12:13 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: 880-19778-1

Laboratory Sample Delivery Group: Hobbs NM

Client Project/Site: Levey Well Hobbs, 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:

10/5/2022 5:51:48 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-19778-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-19778-1
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
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
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 Hobbs, NM - 03B1417001

Job ID: 880-19778-1
SDG: Hobbs NM

Job ID: 880-19778-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-19778-1**

Receipt

The sample was received on 9/28/2022 2:55 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 6.0°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-71038 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-71148 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 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-71149 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-71307 and analytical batch 860-71475 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
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-19778-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19778-1

Date Collected: 09/28/22 10:45

Matrix: Water

Date Received: 09/28/22 14:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00237		0.00100	0.000533 mg/L			09/29/22 15:45	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/29/22 15:45	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/29/22 15:45	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/29/22 15:45	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/29/22 15:45	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/29/22 15:45	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/29/22 15:45	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/29/22 15:45	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/29/22 15:45	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/29/22 15:45	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/29/22 15:45	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/29/22 15:45	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/29/22 15:45	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/29/22 15:45	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/29/22 15:45	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/29/22 15:45	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/29/22 15:45	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 15:45	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/29/22 15:45	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/29/22 15:45	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 15:45	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 15:45	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 15:45	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/29/22 15:45	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/29/22 15:45	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/29/22 15:45	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/29/22 15:45	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/29/22 15:45	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/29/22 15:45	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/29/22 15:45	1
Ethylbenzene	0.00848		0.00100	0.000411 mg/L			09/29/22 15:45	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/29/22 15:45	1
Isopropylbenzene	0.00413		0.00100	0.000613 mg/L			09/29/22 15:45	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/29/22 15:45	1
m,p-Xylenes	0.0341		0.0100	0.00124 mg/L			09/29/22 15:45	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/29/22 15:45	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/29/22 15:45	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 15:45	1
N-Propylbenzene	0.00179		0.00100	0.000498 mg/L			09/29/22 15:45	1
o-Xylene	0.00532		0.00100	0.000551 mg/L			09/29/22 15:45	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 15:45	1
sec-Butylbenzene	0.000715	J	0.00100	0.000468 mg/L			09/29/22 15:45	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/29/22 15:45	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/29/22 15:45	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 15:45	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/29/22 15:45	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/29/22 15:45	1
Toluene	0.0189		0.00100	0.000475 mg/L			09/29/22 15:45	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/29/22 15:45	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-19778-1

Date Collected: 09/28/22 10:45

Matrix: Water

Date Received: 09/28/22 14:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 15:45	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/29/22 15:45	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/29/22 15:45	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/29/22 15:45	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/29/22 15:45	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/29/22 15:45	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/29/22 15:45	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/29/22 15:45	1
1,2,4-Trimethylbenzene	0.00707		0.00100	0.000417 mg/L			09/29/22 15:45	1
1,3,5-Trimethylbenzene	0.00226		0.00100	0.000456 mg/L			09/29/22 15:45	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/29/22 15:45	1
Xylenes, Total	0.0394		0.0100	0.00124 mg/L			09/29/22 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		09/29/22 15:45	1
Dibromofluoromethane (Surr)	98		75 - 131		09/29/22 15:45	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/29/22 15:45	1
Toluene-d8 (Surr)	101		80 - 117		09/29/22 15:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.32		0.500	0.0711 mg/L			09/29/22 20:47	1
Nitrate as N	0.234		0.100	0.0391 mg/L			09/29/22 20:47	1
Chloride	214		0.500	0.200 mg/L			09/29/22 20:47	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/29/22 20:47	1
Fluoride	0.688		0.500	0.100 mg/L			09/29/22 20:47	1
Sulfate	47.2		0.500	0.109 mg/L			09/29/22 20:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	242		10.0	5.76 mg/L		09/30/22 10:30	10/01/22 03:13	50
Magnesium	48.3		0.200	0.0428 mg/L		09/30/22 10:30	10/01/22 02:54	1
Potassium	4.11		0.500	0.0914 mg/L		09/30/22 10:30	10/01/22 02:54	1
Sodium	73.6		0.500	0.152 mg/L		09/30/22 10:30	10/01/22 02:54	1
SiO2	62.7		1.07	0.471 mg/L		09/30/22 10:30	10/01/22 02:54	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-4.04			%			10/03/22 10:50	1
Alkalinity (SM 2320B)	592		4.00	4.00 mg/L			09/30/22 14:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	592		4.00	4.00 mg/L			09/30/22 14:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			09/30/22 14:05	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			09/30/22 14:05	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			09/30/22 14:05	1
Total Dissolved Solids (SM 2540C)	1160		10.0	10.0 mg/L			09/30/22 09:25	1
pH (SM 4500 H+ B)	6.4	HF		SU			09/30/22 13:07	1
Temperature (SM 4500 H+ B)	18.6	HF		Degrees C			09/30/22 13:07	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-19778-1
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)
860-34029-A-8 MS	Matrix Spike	96	100	99	100
880-19778-1	Levey Well	94	98	103	101
LCS 860-71038/3	Lab Control Sample	99	102	101	100
LCSD 860-71038/4	Lab Control Sample Dup	98	99	100	98
MB 860-71038/9	Method Blank	95	99	103	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
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-19778-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-71038/9

Matrix: Water

Analysis Batch: 71038

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/29/22 09:56	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/29/22 09:56	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/29/22 09:56	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/29/22 09:56	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/29/22 09:56	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/29/22 09:56	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/29/22 09:56	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/29/22 09:56	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/29/22 09:56	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/29/22 09:56	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/29/22 09:56	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/29/22 09:56	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/29/22 09:56	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/29/22 09:56	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/29/22 09:56	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/29/22 09:56	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/29/22 09:56	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 09:56	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/29/22 09:56	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/29/22 09:56	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 09:56	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 09:56	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 09:56	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/29/22 09:56	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/29/22 09:56	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/29/22 09:56	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/29/22 09:56	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/29/22 09:56	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/29/22 09:56	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/29/22 09:56	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/29/22 09:56	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/29/22 09:56	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/29/22 09:56	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/29/22 09:56	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/29/22 09:56	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/29/22 09:56	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/29/22 09:56	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 09:56	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/29/22 09:56	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/29/22 09:56	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 09:56	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/29/22 09:56	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/29/22 09:56	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/29/22 09:56	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 09:56	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/29/22 09:56	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/29/22 09:56	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/29/22 09:56	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-71038/9

Matrix: Water

Analysis Batch: 71038

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	<0.000945	U	0.00100	0.000945 mg/L			09/29/22 09:56	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 09:56	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/29/22 09:56	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/29/22 09:56	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/29/22 09:56	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/29/22 09:56	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/29/22 09:56	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/29/22 09:56	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/29/22 09:56	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/29/22 09:56	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/29/22 09:56	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/29/22 09:56	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/29/22 09:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124		09/29/22 09:56	1
Dibromofluoromethane (Surr)	99		75 - 131		09/29/22 09:56	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/29/22 09:56	1
Toluene-d8 (Surr)	100		80 - 117		09/29/22 09:56	1

Lab Sample ID: LCS 860-71038/3

Matrix: Water

Analysis Batch: 71038

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	0.04331		mg/L		87	75 - 125
Bromobenzene	0.0500	0.04737		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04452		mg/L		89	60 - 140
Bromodichloromethane	0.0500	0.04585		mg/L		92	75 - 125
Bromoform	0.0500	0.04800		mg/L		96	70 - 130
Bromomethane	0.0500	0.05183		mg/L		104	60 - 140
2-Butanone	0.250	0.2306		mg/L		92	60 - 140
Carbon tetrachloride	0.0500	0.04475		mg/L		89	70 - 130
Chlorobenzene	0.0500	0.04537		mg/L		91	65 - 135
Chloroethane	0.0500	0.04756		mg/L		95	60 - 140
Chloroform	0.0500	0.04623		mg/L		92	70 - 121
Chloromethane	0.0500	0.04137		mg/L		83	60 - 140
2-Chlorotoluene	0.0500	0.04642		mg/L		93	73 - 125
4-Chlorotoluene	0.0500	0.04742		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04382		mg/L		88	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04651		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04689		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04929		mg/L		99	59 - 125
1,2-Dibromoethane	0.0500	0.04584		mg/L		92	73 - 125
1,2-Dichlorobenzene	0.0500	0.04780		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04731		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04621		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.04745		mg/L		95	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-71038/3

Matrix: Water

Analysis Batch: 71038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04567		mg/L		91	70 - 130
1,2-Dichloroethane	0.0500	0.04493		mg/L		90	72 - 130
1,1-Dichloroethene	0.0500	0.04321		mg/L		86	50 - 150
1,2-Dichloropropane	0.0500	0.04442		mg/L		89	74 - 125
1,3-Dichloropropane	0.0500	0.04516		mg/L		90	75 - 125
2,2-Dichloropropane	0.0500	0.04670		mg/L		93	75 - 125
1,1-Dichloropropene	0.0500	0.04125		mg/L		82	75 - 125
Ethylbenzene	0.0500	0.04654		mg/L		93	75 - 125
Hexachlorobutadiene	0.0500	0.04858		mg/L		97	75 - 125
Isopropylbenzene	0.0500	0.04873		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.03948		mg/L		79	75 - 125
m,p-Xylenes	0.0500	0.04601		mg/L		92	75 - 125
MTBE	0.0500	0.04810		mg/L		96	65 - 135
Naphthalene	0.0500	0.05795		mg/L		116	70 - 130
n-Butylbenzene	0.0500	0.05064		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.04824		mg/L		96	75 - 125
o-Xylene	0.0500	0.04601		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05163		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.05043		mg/L		101	75 - 125
Styrene	0.0500	0.04724		mg/L		94	75 - 125
tert-Butylbenzene	0.0500	0.05026		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04732		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04798		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.04641		mg/L		93	71 - 125
Toluene	0.0500	0.04376		mg/L		88	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04287		mg/L		86	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04681		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05683		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04941		mg/L		99	75 - 135
1,1,1-Trichloroethane	0.0500	0.04639		mg/L		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04703		mg/L		94	70 - 130
Trichloroethene	0.0500	0.04436		mg/L		89	75 - 135
Trichlorofluoromethane	0.0500	0.05193		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.04831		mg/L		97	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04896		mg/L		98	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04806		mg/L		96	60 - 140
Vinyl chloride	0.0500	0.04510		mg/L		90	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	102		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 Hobbs, NM - 03B1417001

Job ID: 880-19778-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-71038/4

Matrix: Water

Analysis Batch: 71038

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	0.04264		mg/L		85	75 - 125	2	25
Bromobenzene	0.0500	0.04562		mg/L		91	75 - 125	4	25
Bromochloromethane	0.0500	0.04350		mg/L		87	60 - 140	2	25
Bromodichloromethane	0.0500	0.04513		mg/L		90	75 - 125	2	25
Bromoform	0.0500	0.04753		mg/L		95	70 - 130	1	25
Bromomethane	0.0500	0.04944		mg/L		99	60 - 140	5	25
2-Butanone	0.250	0.2347		mg/L		94	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04528		mg/L		91	70 - 130	1	25
Chlorobenzene	0.0500	0.04489		mg/L		90	65 - 135	1	25
Chloroethane	0.0500	0.04700		mg/L		94	60 - 140	1	25
Chloroform	0.0500	0.04550		mg/L		91	70 - 121	2	25
Chloromethane	0.0500	0.04181		mg/L		84	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04526		mg/L		91	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04581		mg/L		92	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.04355		mg/L		87	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04539		mg/L		91	74 - 125	2	25
Dibromochloromethane	0.0500	0.04722		mg/L		94	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04915		mg/L		98	59 - 125	0	25
1,2-Dibromoethane	0.0500	0.04525		mg/L		90	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04661		mg/L		93	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04513		mg/L		90	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.04498		mg/L		90	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04638		mg/L		93	70 - 130	2	25
1,1-Dichloroethane	0.0500	0.04452		mg/L		89	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04413		mg/L		88	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04400		mg/L		88	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04450		mg/L		89	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04543		mg/L		91	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04667		mg/L		93	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.04207		mg/L		84	75 - 125	2	25
Ethylbenzene	0.0500	0.04584		mg/L		92	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04707		mg/L		94	75 - 125	3	25
Isopropylbenzene	0.0500	0.04891		mg/L		98	75 - 125	0	25
Methylene Chloride	0.0500	0.04004		mg/L		80	75 - 125	1	25
m,p-Xylenes	0.0500	0.04592		mg/L		92	75 - 125	0	25
MTBE	0.0500	0.04760		mg/L		95	65 - 135	1	25
Naphthalene	0.0500	0.05735		mg/L		115	70 - 130	1	25
n-Butylbenzene	0.0500	0.04911		mg/L		98	75 - 125	3	25
N-Propylbenzene	0.0500	0.04705		mg/L		94	75 - 125	3	25
o-Xylene	0.0500	0.04628		mg/L		93	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05038		mg/L		101	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04943		mg/L		99	75 - 125	2	25
Styrene	0.0500	0.04686		mg/L		94	75 - 125	1	25
tert-Butylbenzene	0.0500	0.04918		mg/L		98	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04719		mg/L		94	72 - 125	0	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04573		mg/L		91	74 - 125	5	25
Tetrachloroethene	0.0500	0.04626		mg/L		93	71 - 125	0	25
Toluene	0.0500	0.04282		mg/L		86	70 - 130	2	25

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QC Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-71038/4

Matrix: Water

Analysis Batch: 71038

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	0.04217		mg/L		84	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04601		mg/L		92	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05616		mg/L		112	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.04828		mg/L		97	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04554		mg/L		91	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04651		mg/L		93	70 - 130	1	25
Trichloroethene	0.0500	0.04506		mg/L		90	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05211		mg/L		104	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.04756		mg/L		95	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04829		mg/L		97	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.04764		mg/L		95	60 - 140	1	25
Vinyl chloride	0.0500	0.04472		mg/L		89	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-71148/3

Matrix: Water

Analysis Batch: 71148

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			09/29/22 10:03	1
Chloride	<0.200	U	0.500	0.200 mg/L			09/29/22 10:03	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/29/22 10:03	1
Sulfate	<0.109	U	0.500	0.109 mg/L			09/29/22 10:03	1

Lab Sample ID: LCS 860-71148/6

Matrix: Water

Analysis Batch: 71148

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	9.635		mg/L		96	90 - 110
Chloride	10.0	9.293		mg/L		93	90 - 110
Fluoride	10.0	10.19		mg/L		102	90 - 110
Sulfate	10.0	9.206		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-71148/7

Matrix: Water

Analysis Batch: 71148

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	9.676		mg/L		97	90 - 110	0	20
Chloride	10.0	9.299		mg/L		93	90 - 110	0	20
Fluoride	10.0	10.24		mg/L		102	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-71148/7

Matrix: Water

Analysis Batch: 71148

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	9.229		mg/L		92	90 - 110	0	20

Lab Sample ID: LLCS 860-71148/5

Matrix: Water

Analysis Batch: 71148

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	0.5414		mg/L		108	50 - 150		
Chloride	0.500	0.4919	J	mg/L		98	50 - 150		
Fluoride	0.500	0.4371	J	mg/L		87	50 - 150		
Sulfate	0.500	0.5277		mg/L		106	50 - 150		

Lab Sample ID: MB 860-71149/3

Matrix: Water

Analysis Batch: 71149

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	mg/L			09/29/22 10:03	1
Nitrite as N	<0.0293	U	0.100	mg/L			09/29/22 10:03	1

Lab Sample ID: LCS 860-71149/6

Matrix: Water

Analysis Batch: 71149

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	9.636		mg/L		96	80 - 120		
Nitrite as N	5.00	4.886		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-71149/7

Matrix: Water

Analysis Batch: 71149

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	9.663		mg/L		97	80 - 120	0	20
Nitrite as N	5.00	4.925		mg/L		98	80 - 120	1	20

Lab Sample ID: LLCS 860-71149/4

Matrix: Water

Analysis Batch: 71149

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	0.1076		mg/L		108	50 - 150		
Nitrite as N	0.100	0.05300	J	mg/L		53	50 - 150		

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QC Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-71307/1-A

Matrix: Water

Analysis Batch: 71475

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 71307

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		09/30/22 10:30	10/01/22 01:55	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		09/30/22 10:30	10/01/22 01:55	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		09/30/22 10:30	10/01/22 01:55	1
Sodium	<0.152	U	0.500	0.152 mg/L		09/30/22 10:30	10/01/22 01:55	1
SiO2	<0.471	U	1.07	0.471 mg/L		09/30/22 10:30	10/01/22 01:55	1

Lab Sample ID: LCS 860-71307/2-A

Matrix: Water

Analysis Batch: 71475

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 71307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.10		mg/L		92	85 - 115
Magnesium	25.0	22.90		mg/L		92	85 - 115
Potassium	10.0	9.340		mg/L		93	85 - 115
Sodium	25.0	22.70		mg/L		91	85 - 115
SiO2	21.4	20.39		mg/L		95	85 - 115

Lab Sample ID: LCSD 860-71307/3-A

Matrix: Water

Analysis Batch: 71475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 71307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	22.80		mg/L		91	85 - 115	1	20
Magnesium	25.0	22.70		mg/L		91	85 - 115	1	20
Potassium	10.0	9.230		mg/L		92	85 - 115	1	20
Sodium	25.0	22.50		mg/L		90	85 - 115	1	20
SiO2	21.4	20.33		mg/L		95	85 - 115	0	20

Lab Sample ID: LLCS 860-71307/4-A

Matrix: Water

Analysis Batch: 71475

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 71307

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2280		mg/L		114	50 - 150
Magnesium	0.200	0.1730	J	mg/L		87	50 - 150
Potassium	0.500	0.4640	J	mg/L		93	50 - 150
Sodium	0.500	0.4220	J	mg/L		84	50 - 150
SiO2	1.07	0.9630	J	mg/L		90	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-71396/4

Matrix: Water

Analysis Batch: 71396

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			09/30/22 11:07	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/30/22 11:07	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/30/22 11:07	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			09/30/22 11:07	1

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QC Sample Results

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

Job ID: 880-19778-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-71396/4

Matrix: Water

Analysis Batch: 71396

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			09/30/22 11:07	1

Lab Sample ID: LCS 860-71396/5

Matrix: Water

Analysis Batch: 71396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	232.1		mg/L		93	85 - 115

Lab Sample ID: LCSD 860-71396/6

Matrix: Water

Analysis Batch: 71396

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	233.4		mg/L		93	85 - 115	1	20

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

Lab Sample ID: MB 860-71282/1

Matrix: Water

Analysis Batch: 71282

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			09/30/22 09:25	1

Lab Sample ID: LCS 860-71282/2

Matrix: Water

Analysis Batch: 71282

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	1070		mg/L		107	80 - 120

Lab Sample ID: LCSD 860-71282/3

Matrix: Water

Analysis Batch: 71282

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	1068		mg/L		107	80 - 120	0	10

Eurofins Midland

QC Association Summary

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

Job ID: 880-19778-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 71038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	8260C	
MB 860-71038/9	Method Blank	Total/NA	Water	8260C	
LCS 860-71038/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-71038/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 71148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	300.0	
MB 860-71148/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71148/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71148/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71148/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 71149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	300.0	
MB 860-71149/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71149/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71149/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71149/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 71307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-71307/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-71307/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-71307/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-71307/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 71475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	71307
880-19778-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	71307
MB 860-71307/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	71307
LCS 860-71307/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	71307
LCSD 860-71307/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	71307
LLCS 860-71307/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	71307

General Chemistry

Analysis Batch: 71282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-71282/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-71282/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-71282/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-19778-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 71362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 71396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-71396/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-71396/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-71396/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 71550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19778-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-19778-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-19778-1
Date Collected: 09/28/22 10:45 Matrix: Water
Date Received: 09/28/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	71038	NA	EET HOU	09/29/22 15:45
Total/NA	Analysis	300.0		1	71148	A1S	EET HOU	09/29/22 20:47
Total/NA	Analysis	300.0		1	71149	A1S	EET HOU	09/29/22 20:47
Total Recoverable	Prep	200.7			71307	MD	EET HOU	09/30/22 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	71475	DP	EET HOU	10/01/22 02:54
Total Recoverable	Prep	200.7			71307	MD	EET HOU	09/30/22 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	71475	DP	EET HOU	10/01/22 03:13
Total/NA	Analysis	SM 1030E		1	71550	AA	EET HOU	10/03/22 10:50
Total/NA	Analysis	SM 2320B		1	71396	TL	EET HOU	09/30/22 14:05
Total/NA	Analysis	SM 2540C		1	71282	BSR	EET HOU	09/30/22 09:25
Total/NA	Analysis	SM 4500 H+ B		1	71362	TL	EET HOU	09/30/22 13:07

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

Accreditation/Certification Summary

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

Job ID: 880-19778-1
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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	SiO2
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 Hobbs, NM - 03B1417001

Job ID: 880-19778-1
SDG: Hobbs NM

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

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:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

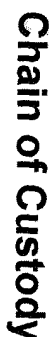
Sample Summary

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

Job ID: 880-19778-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19778-1	Levey Well	Water	09/28/22 10:45	09/28/22 14:55

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Work Order No:

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)585-5443 Lubbock, TX (806)794-1296
(575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-888-8888)

Page 1 of 1
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Project Manager:	Beaux Jennings		Bill to - (if different)	
Company Name:	Ensolum LLC		Company Name:	
Address:	601 Maranfield #400		Address:	
City, State ZIP:	Midland TX 79701		City, State ZIP	
Phone:	432-230-3344		Email:	bjenning@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRR ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting Level I ☐ 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:	Shane Diller		Due Date		
SAMPLE RECEIPT					
Temperature (°C):	Temp Blank: 58.100	Yes ☒ No ☐	Wet Ice: ☒ No ☐		
Received Intact:	Yes ☒ No ☐	Thermometer ID: 1228			
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor: -20			
Sample Custody Seals:	Yes ☒ No ☐	Total Containers:			
Number of Containers:					
F, Cl, SO ₄ , B					
Ca, K, Mg, Na, Si					
TAT starts the day received by the lab, if received by 4:30pm					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions	Cations	pH	Alkalinity	TDS	Sample Comments	
Levey Well	GW	9-28-22	1045	—	7	X	X	X	X	X	X	24 Hr	
880-19778 Chain of Custody  9-28-22 NJK 4/													



880-19778 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	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 sub-contractors. 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
		9/28/22			
		1455			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-19778-1

SDG Number: Hobbs NM

Login Number: 19778

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: 880-19778-1

SDG Number: Hobbs NM

Login Number: 19778

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 09/29/22 02:00 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: 880-19777-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

10/4/2022 5:29:10 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: 880-19777-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
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.
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.

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-19777-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: South Hobbs - 03B1417002

Job ID: 880-19777-1

Job ID: 880-19777-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-19777-1

Receipt

The samples were received on 9/28/2022 2:55 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 6.0°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-71038 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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 860-71148 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 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-71149 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: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19777-1

Date Collected: 09/28/22 11:00

Matrix: Water

Date Received: 09/28/22 14:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/29/22 14:44	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/29/22 14:44	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/29/22 14:44	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/29/22 14:44	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/29/22 14:44	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/29/22 14:44	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/29/22 14:44	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/29/22 14:44	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/29/22 14:44	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/29/22 14:44	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/29/22 14:44	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/29/22 14:44	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/29/22 14:44	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/29/22 14:44	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/29/22 14:44	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/29/22 14:44	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/29/22 14:44	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 14:44	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/29/22 14:44	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/29/22 14:44	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 14:44	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 14:44	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 14:44	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/29/22 14:44	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/29/22 14:44	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/29/22 14:44	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/29/22 14:44	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/29/22 14:44	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/29/22 14:44	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/29/22 14:44	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/29/22 14:44	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/29/22 14:44	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/29/22 14:44	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/29/22 14:44	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/29/22 14:44	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/29/22 14:44	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/29/22 14:44	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 14:44	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/29/22 14:44	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/29/22 14:44	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 14:44	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/29/22 14:44	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/29/22 14:44	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/29/22 14:44	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 14:44	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/29/22 14:44	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/29/22 14:44	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/29/22 14:44	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/29/22 14:44	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19777-1

Date Collected: 09/28/22 11:00

Matrix: Water

Date Received: 09/28/22 14:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 14:44	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/29/22 14:44	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/29/22 14:44	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/29/22 14:44	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/29/22 14:44	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/29/22 14:44	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/29/22 14:44	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/29/22 14:44	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/29/22 14:44	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/29/22 14:44	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/29/22 14:44	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/29/22 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		09/29/22 14:44	1
Dibromofluoromethane (Surr)	100		75 - 131		09/29/22 14:44	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		09/29/22 14:44	1
Toluene-d8 (Surr)	102		80 - 117		09/29/22 14:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.956	U	4.84	0.956 mg/L			09/29/22 16:37	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	<0.956	U	4.84	0.956 mg/L		09/29/22 15:45	09/30/22 00:03	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956 mg/L		09/29/22 15:45	09/30/22 00:03	1
Oil Range Organics (Over C28-C36)	<0.923	U	4.84	0.923 mg/L		09/29/22 15:45	09/30/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135			09/29/22 15:45	09/30/22 00:03	1
o-Terphenyl	97		70 - 135			09/29/22 15:45	09/30/22 00:03	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.2		0.500	0.200 mg/L			09/29/22 20:00	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			09/29/22 20:00	1
Fluoride	0.702		0.500	0.100 mg/L			09/29/22 20:00	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			09/29/22 20:00	1
Sulfate	32.8	F1	0.500	0.109 mg/L			09/29/22 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	285		4.00	4.00 mg/L			09/30/22 13:11	1
Bicarbonate Alkalinity as CaCO3	285		4.00	4.00 mg/L			09/30/22 13:11	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/30/22 13:11	1
Carbon dioxide	279			mg/L			09/30/22 16:58	1
Carbon Dioxide, Free	28.5			mg/L			09/30/22 16:58	1
pH	7.3	HF		SU			09/30/22 13:04	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19777-1

Date Collected: 09/28/22 11:00

Matrix: Water

Date Received: 09/28/22 14:55

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	17.9	HF		Degrees C			09/30/22 13:04	1
Sulfide	1.20	J	5.00	0.495 mg/L			10/04/22 14:54	1

Client Sample ID: MW-2

Lab Sample ID: 880-19777-2

Date Collected: 09/28/22 11:50

Matrix: Water

Date Received: 09/28/22 14:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0155		0.00100	0.000533 mg/L			09/29/22 15:04	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/29/22 15:04	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/29/22 15:04	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/29/22 15:04	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/29/22 15:04	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/29/22 15:04	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/29/22 15:04	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/29/22 15:04	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/29/22 15:04	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/29/22 15:04	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/29/22 15:04	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/29/22 15:04	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/29/22 15:04	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/29/22 15:04	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/29/22 15:04	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/29/22 15:04	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/29/22 15:04	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 15:04	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/29/22 15:04	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/29/22 15:04	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 15:04	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 15:04	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 15:04	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/29/22 15:04	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/29/22 15:04	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/29/22 15:04	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/29/22 15:04	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/29/22 15:04	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/29/22 15:04	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/29/22 15:04	1
Ethylbenzene	0.0133		0.00100	0.000411 mg/L			09/29/22 15:04	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/29/22 15:04	1
Isopropylbenzene	0.00651		0.00100	0.000613 mg/L			09/29/22 15:04	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/29/22 15:04	1
m,p-Xylenes	0.0584		0.0100	0.00124 mg/L			09/29/22 15:04	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/29/22 15:04	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/29/22 15:04	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 15:04	1
N-Propylbenzene	0.00178		0.00100	0.000498 mg/L			09/29/22 15:04	1
o-Xylene	0.00514		0.00100	0.000551 mg/L			09/29/22 15:04	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 15:04	1

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Client Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-19777-2

Date Collected: 09/28/22 11:50

Matrix: Water

Date Received: 09/28/22 14:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.000720	J	0.00100	0.000468 mg/L			09/29/22 15:04	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/29/22 15:04	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/29/22 15:04	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 15:04	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/29/22 15:04	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/29/22 15:04	1
Toluene	0.00113		0.00100	0.000475 mg/L			09/29/22 15:04	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/29/22 15:04	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 15:04	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/29/22 15:04	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/29/22 15:04	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/29/22 15:04	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/29/22 15:04	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/29/22 15:04	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/29/22 15:04	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/29/22 15:04	1
1,2,4-Trimethylbenzene	0.0201		0.00100	0.000417 mg/L			09/29/22 15:04	1
1,3,5-Trimethylbenzene	0.00465		0.00100	0.000456 mg/L			09/29/22 15:04	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/29/22 15:04	1
Xylenes, Total	0.0635		0.0100	0.00124 mg/L			09/29/22 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		09/29/22 15:04	1
Dibromofluoromethane (Surr)	98		75 - 131		09/29/22 15:04	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		09/29/22 15:04	1
Toluene-d8 (Surr)	102		80 - 117		09/29/22 15:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.06	J	5.32	1.05 mg/L			09/29/22 16:37	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	1.06	J	5.32	1.05 mg/L		09/29/22 15:45	09/30/22 00:22	1
Diesel Range Organics (Over C10-C28)	<1.05	U	5.32	1.05 mg/L		09/29/22 15:45	09/30/22 00:22	1
Oil Range Organics (Over C28-C36)	<1.01	U	5.32	1.01 mg/L		09/29/22 15:45	09/30/22 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135	09/29/22 15:45	09/30/22 00:22	1
o-Terphenyl	89		70 - 135	09/29/22 15:45	09/30/22 00:22	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.2		0.500	0.200 mg/L			09/29/22 20:35	1
Nitrate as N	0.261		0.100	0.0391 mg/L			09/29/22 20:35	1
Fluoride	0.498	J	0.500	0.100 mg/L			09/29/22 20:35	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/29/22 20:35	1
Sulfate	92.5		0.500	0.109 mg/L			09/29/22 20:35	1

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Client Sample Results

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

Job ID: 880-19777-1

Client Sample ID: MW-2
Date Collected: 09/28/22 11:50
Date Received: 09/28/22 14:55

Lab Sample ID: 880-19777-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1280		4.00	4.00	mg/L			09/30/22 13:55	1
Bicarbonate Alkalinity as CaCO3	1280		4.00	4.00	mg/L			09/30/22 13:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			09/30/22 13:55	1
Carbon dioxide	2410				mg/L			09/30/22 16:58	1
Carbon Dioxide, Free	1280				mg/L			09/30/22 16:58	1
pH	6.3	HF			SU			09/30/22 13:05	1
Temperature	18.6	HF			Degrees C			09/30/22 13:05	1
Sulfide	<0.495	U	5.00	0.495	mg/L			10/04/22 14:54	1

Surrogate Summary

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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 (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-34029-A-8 MS	Matrix Spike	96	100	99	100
880-19777-1	MW-1	94	100	105	102
880-19777-2	MW-2	97	98	105	102
LCS 860-71038/3	Lab Control Sample	99	102	101	100
LCSD 860-71038/4	Lab Control Sample Dup	98	99	100	98
MB 860-71038/9	Method Blank	95	99	103	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-19777-1	MW-1	85	97
880-19777-2	MW-2	83	89
LCS 860-71197/2-A	Lab Control Sample	90	98
LCSD 860-71197/3-A	Lab Control Sample Dup	88	98
MB 860-71197/1-A	Method Blank	85	97
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-71038/9

Matrix: Water

Analysis Batch: 71038

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533 mg/L			09/29/22 09:56	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			09/29/22 09:56	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			09/29/22 09:56	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			09/29/22 09:56	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			09/29/22 09:56	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			09/29/22 09:56	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			09/29/22 09:56	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			09/29/22 09:56	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			09/29/22 09:56	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			09/29/22 09:56	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			09/29/22 09:56	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			09/29/22 09:56	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			09/29/22 09:56	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			09/29/22 09:56	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			09/29/22 09:56	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			09/29/22 09:56	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			09/29/22 09:56	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 09:56	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			09/29/22 09:56	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			09/29/22 09:56	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 09:56	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			09/29/22 09:56	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 09:56	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			09/29/22 09:56	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			09/29/22 09:56	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			09/29/22 09:56	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			09/29/22 09:56	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			09/29/22 09:56	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			09/29/22 09:56	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			09/29/22 09:56	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			09/29/22 09:56	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			09/29/22 09:56	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			09/29/22 09:56	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			09/29/22 09:56	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			09/29/22 09:56	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			09/29/22 09:56	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			09/29/22 09:56	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 09:56	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			09/29/22 09:56	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			09/29/22 09:56	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			09/29/22 09:56	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			09/29/22 09:56	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			09/29/22 09:56	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			09/29/22 09:56	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			09/29/22 09:56	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			09/29/22 09:56	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			09/29/22 09:56	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			09/29/22 09:56	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-71038/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 71038

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			09/29/22 09:56	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			09/29/22 09:56	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			09/29/22 09:56	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			09/29/22 09:56	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			09/29/22 09:56	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			09/29/22 09:56	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			09/29/22 09:56	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			09/29/22 09:56	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			09/29/22 09:56	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			09/29/22 09:56	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			09/29/22 09:56	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			09/29/22 09:56	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			09/29/22 09:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124		09/29/22 09:56	1
Dibromofluoromethane (Surr)	99		75 - 131		09/29/22 09:56	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		09/29/22 09:56	1
Toluene-d8 (Surr)	100		80 - 117		09/29/22 09:56	1

Lab Sample ID: LCS 860-71038/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 71038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04331		mg/L		87	75 - 125
Bromobenzene	0.0500	0.04737		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04452		mg/L		89	60 - 140
Bromodichloromethane	0.0500	0.04585		mg/L		92	75 - 125
Bromoform	0.0500	0.04800		mg/L		96	70 - 130
Bromomethane	0.0500	0.05183		mg/L		104	60 - 140
2-Butanone	0.250	0.2306		mg/L		92	60 - 140
Carbon tetrachloride	0.0500	0.04475		mg/L		89	70 - 130
Chlorobenzene	0.0500	0.04537		mg/L		91	65 - 135
Chloroethane	0.0500	0.04756		mg/L		95	60 - 140
Chloroform	0.0500	0.04623		mg/L		92	70 - 121
Chloromethane	0.0500	0.04137		mg/L		83	60 - 140
2-Chlorotoluene	0.0500	0.04642		mg/L		93	73 - 125
4-Chlorotoluene	0.0500	0.04742		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04382		mg/L		88	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04651		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04689		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04929		mg/L		99	59 - 125
1,2-Dibromoethane	0.0500	0.04584		mg/L		92	73 - 125
1,2-Dichlorobenzene	0.0500	0.04780		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04731		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04621		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.04745		mg/L		95	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-71038/3

Matrix: Water

Analysis Batch: 71038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04567		mg/L		91	70 - 130
1,2-Dichloroethane	0.0500	0.04493		mg/L		90	72 - 130
1,1-Dichloroethene	0.0500	0.04321		mg/L		86	50 - 150
1,2-Dichloropropane	0.0500	0.04442		mg/L		89	74 - 125
1,3-Dichloropropane	0.0500	0.04516		mg/L		90	75 - 125
2,2-Dichloropropane	0.0500	0.04670		mg/L		93	75 - 125
1,1-Dichloropropene	0.0500	0.04125		mg/L		82	75 - 125
Ethylbenzene	0.0500	0.04654		mg/L		93	75 - 125
Hexachlorobutadiene	0.0500	0.04858		mg/L		97	75 - 125
Isopropylbenzene	0.0500	0.04873		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.03948		mg/L		79	75 - 125
m,p-Xylenes	0.0500	0.04601		mg/L		92	75 - 125
MTBE	0.0500	0.04810		mg/L		96	65 - 135
Naphthalene	0.0500	0.05795		mg/L		116	70 - 130
n-Butylbenzene	0.0500	0.05064		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.04824		mg/L		96	75 - 125
o-Xylene	0.0500	0.04601		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05163		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.05043		mg/L		101	75 - 125
Styrene	0.0500	0.04724		mg/L		94	75 - 125
tert-Butylbenzene	0.0500	0.05026		mg/L		101	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04732		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04798		mg/L		96	74 - 125
Tetrachloroethene	0.0500	0.04641		mg/L		93	71 - 125
Toluene	0.0500	0.04376		mg/L		88	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04287		mg/L		86	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04681		mg/L		94	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05683		mg/L		114	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04941		mg/L		99	75 - 135
1,1,1-Trichloroethane	0.0500	0.04639		mg/L		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04703		mg/L		94	70 - 130
Trichloroethene	0.0500	0.04436		mg/L		89	75 - 135
Trichlorofluoromethane	0.0500	0.05193		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.04831		mg/L		97	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04896		mg/L		98	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04806		mg/L		96	60 - 140
Vinyl chloride	0.0500	0.04510		mg/L		90	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-71038/4

Matrix: Water

Analysis Batch: 71038

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	0.04264		mg/L		85	75 - 125	2	25
Bromobenzene	0.0500	0.04562		mg/L		91	75 - 125	4	25
Bromochloromethane	0.0500	0.04350		mg/L		87	60 - 140	2	25
Bromodichloromethane	0.0500	0.04513		mg/L		90	75 - 125	2	25
Bromoform	0.0500	0.04753		mg/L		95	70 - 130	1	25
Bromomethane	0.0500	0.04944		mg/L		99	60 - 140	5	25
2-Butanone	0.250	0.2347		mg/L		94	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04528		mg/L		91	70 - 130	1	25
Chlorobenzene	0.0500	0.04489		mg/L		90	65 - 135	1	25
Chloroethane	0.0500	0.04700		mg/L		94	60 - 140	1	25
Chloroform	0.0500	0.04550		mg/L		91	70 - 121	2	25
Chloromethane	0.0500	0.04181		mg/L		84	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04526		mg/L		91	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04581		mg/L		92	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.04355		mg/L		87	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04539		mg/L		91	74 - 125	2	25
Dibromochloromethane	0.0500	0.04722		mg/L		94	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04915		mg/L		98	59 - 125	0	25
1,2-Dibromoethane	0.0500	0.04525		mg/L		90	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04661		mg/L		93	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04513		mg/L		90	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.04498		mg/L		90	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04638		mg/L		93	70 - 130	2	25
1,1-Dichloroethane	0.0500	0.04452		mg/L		89	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04413		mg/L		88	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04400		mg/L		88	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04450		mg/L		89	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04543		mg/L		91	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04667		mg/L		93	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.04207		mg/L		84	75 - 125	2	25
Ethylbenzene	0.0500	0.04584		mg/L		92	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04707		mg/L		94	75 - 125	3	25
Isopropylbenzene	0.0500	0.04891		mg/L		98	75 - 125	0	25
Methylene Chloride	0.0500	0.04004		mg/L		80	75 - 125	1	25
m,p-Xylenes	0.0500	0.04592		mg/L		92	75 - 125	0	25
MTBE	0.0500	0.04760		mg/L		95	65 - 135	1	25
Naphthalene	0.0500	0.05735		mg/L		115	70 - 130	1	25
n-Butylbenzene	0.0500	0.04911		mg/L		98	75 - 125	3	25
N-Propylbenzene	0.0500	0.04705		mg/L		94	75 - 125	3	25
o-Xylene	0.0500	0.04628		mg/L		93	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05038		mg/L		101	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04943		mg/L		99	75 - 125	2	25
Styrene	0.0500	0.04686		mg/L		94	75 - 125	1	25
tert-Butylbenzene	0.0500	0.04918		mg/L		98	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04719		mg/L		94	72 - 125	0	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04573		mg/L		91	74 - 125	5	25
Tetrachloroethene	0.0500	0.04626		mg/L		93	71 - 125	0	25
Toluene	0.0500	0.04282		mg/L		86	70 - 130	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-71038/4

Matrix: Water

Analysis Batch: 71038

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	0.04217		mg/L		84	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04601		mg/L		92	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05616		mg/L		112	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.04828		mg/L		97	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04554		mg/L		91	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04651		mg/L		93	70 - 130	1	25
Trichloroethene	0.0500	0.04506		mg/L		90	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05211		mg/L		104	60 - 140	0	25
1,2,3-Trichloropropane	0.0500	0.04756		mg/L		95	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04829		mg/L		97	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.04764		mg/L		95	60 - 140	1	25
Vinyl chloride	0.0500	0.04472		mg/L		89	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	98		80 - 117

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

Lab Sample ID: MB 860-71197/1-A

Matrix: Water

Analysis Batch: 71077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71197

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		09/29/22 15:45	09/29/22 23:44	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		09/29/22 15:45	09/29/22 23:44	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		09/29/22 15:45	09/29/22 23:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135	09/29/22 15:45	09/29/22 23:44	1
o-Terphenyl	97		70 - 135	09/29/22 15:45	09/29/22 23:44	1

Lab Sample ID: LCS 860-71197/2-A

Matrix: Water

Analysis Batch: 71077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	116.9		mg/L		117	70 - 135
Diesel Range Organics (Over C10-C28)	100	93.82		mg/L		94	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 135
o-Terphenyl	98		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-71197/3-A

Matrix: Water

Analysis Batch: 71077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71197

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			99.9	119.9		mg/L		120	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			100	96.95		mg/L		97	70 - 135	3	35
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 135								
o-Terphenyl	98		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-71148/3

Matrix: Water

Analysis Batch: 71148

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.200	U	0.500	0.200 mg/L			09/29/22 10:03	1
Fluoride	<0.100	U	0.500	0.100 mg/L			09/29/22 10:03	1
Sulfate	<0.109	U	0.500	0.109 mg/L			09/29/22 10:03	1

Lab Sample ID: LCS 860-71148/6

Matrix: Water

Analysis Batch: 71148

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	9.293		mg/L		93	90 - 110
Fluoride	10.0	10.19		mg/L		102	90 - 110
Sulfate	10.0	9.206		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-71148/7

Matrix: Water

Analysis Batch: 71148

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	9.299		mg/L		93	90 - 110	0	20
Fluoride	10.0	10.24		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.229		mg/L		92	90 - 110	0	20

Lab Sample ID: LLCS 860-71148/5

Matrix: Water

Analysis Batch: 71148

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	0.4919	J	mg/L		98	50 - 150
Fluoride	0.500	0.4371	J	mg/L		87	50 - 150
Sulfate	0.500	0.5277		mg/L		106	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19777-1 MS

Matrix: Water

Analysis Batch: 71148

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	91.2		10.0	97.76	4	mg/L		66	90 - 110
Fluoride	0.702		10.0	10.88		mg/L		102	90 - 110
Sulfate	32.8	F1	10.0	41.39	F1	mg/L		86	90 - 110

Lab Sample ID: 880-19777-1 MSD

Matrix: Water

Analysis Batch: 71148

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	91.2		10.0	97.56	4	mg/L		64	90 - 110	0	20
Fluoride	0.702		10.0	10.97		mg/L		103	90 - 110	1	20
Sulfate	32.8	F1	10.0	41.44	F1	mg/L		87	90 - 110	0	20

Lab Sample ID: MB 860-71149/3

Matrix: Water

Analysis Batch: 71149

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			09/29/22 10:03	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			09/29/22 10:03	1

Lab Sample ID: LCS 860-71149/6

Matrix: Water

Analysis Batch: 71149

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	9.636		mg/L		96	80 - 120
Nitrite as N	5.00	4.886		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-71149/7

Matrix: Water

Analysis Batch: 71149

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	9.663		mg/L		97	80 - 120	0	20
Nitrite as N	5.00	4.925		mg/L		98	80 - 120	1	20

Lab Sample ID: LLCS 860-71149/4

Matrix: Water

Analysis Batch: 71149

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	0.1076		mg/L		108	50 - 150
Nitrite as N	0.100	0.05300	J	mg/L		53	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19777-1 MS

Matrix: Water

Analysis Batch: 71149

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	<0.0391	U	10.0	9.664		mg/L		97	80 - 120
Nitrite as N	<0.0293	U F1	2.50	3.823	F1	mg/L		153	80 - 120

Lab Sample ID: 880-19777-1 MSD

Matrix: Water

Analysis Batch: 71149

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	<0.0391	U	10.0	9.604		mg/L		96	80 - 120	1	15
Nitrite as N	<0.0293	U F1	2.50	3.789	F1	mg/L		152	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-71396/4

Matrix: Water

Analysis Batch: 71396

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			09/30/22 11:07	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/30/22 11:07	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			09/30/22 11:07	1

Lab Sample ID: LCS 860-71396/5

Matrix: Water

Analysis Batch: 71396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	232.1		mg/L		93	85 - 115

Lab Sample ID: LCSD 860-71396/6

Matrix: Water

Analysis Batch: 71396

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	233.4		mg/L		93	85 - 115	1	20

Lab Sample ID: 880-19777-1 DU

Matrix: Water

Analysis Batch: 71396

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	285		277.1		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	285		277.1		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-71833/1

Matrix: Water

Analysis Batch: 71833

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			10/04/22 14:54	1

Lab Sample ID: LCS 860-71833/2

Matrix: Water

Analysis Batch: 71833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	103	86.00		mg/L		84	80 - 120

Lab Sample ID: LCSD 860-71833/3

Matrix: Water

Analysis Batch: 71833

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	103	86.00		mg/L		84	80 - 120	0	20

Lab Sample ID: 880-19777-1 MS

Matrix: Water

Analysis Batch: 71833

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	1.20	J	103	84.80		mg/L		81	80 - 120

Lab Sample ID: 880-19777-1 MSD

Matrix: Water

Analysis Batch: 71833

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	1.20	J	103	84.80		mg/L		81	80 - 120	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 71038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	8260C	
880-19777-2	MW-2	Total/NA	Water	8260C	
MB 860-71038/9	Method Blank	Total/NA	Water	8260C	
LCS 860-71038/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-71038/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 68755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	8015 NM	
880-19777-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 71077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	8015B NM	71197
880-19777-2	MW-2	Total/NA	Water	8015B NM	71197
MB 860-71197/1-A	Method Blank	Total/NA	Water	8015B NM	71197
LCS 860-71197/2-A	Lab Control Sample	Total/NA	Water	8015B NM	71197
LCSD 860-71197/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	71197

Prep Batch: 71197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-19777-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-71197/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-71197/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-71197/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 71148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	300.0	
880-19777-2	MW-2	Total/NA	Water	300.0	
MB 860-71148/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71148/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71148/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71148/5	Lab Control Sample	Total/NA	Water	300.0	
880-19777-1 MS	MW-1	Total/NA	Water	300.0	
880-19777-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 71149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	300.0	
880-19777-2	MW-2	Total/NA	Water	300.0	
MB 860-71149/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71149/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71149/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71149/4	Lab Control Sample	Total/NA	Water	300.0	
880-19777-1 MS	MW-1	Total/NA	Water	300.0	
880-19777-1 MSD	MW-1	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-19777-1

General Chemistry

Analysis Batch: 71362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-19777-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 71396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	SM 2320B	
880-19777-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-71396/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-71396/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-71396/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-19777-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 71418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-19777-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 71833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19777-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-19777-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-71833/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-71833/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-71833/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-19777-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-19777-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: Ensolum

Job ID: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-19777-1

Date Collected: 09/28/22 11:00

Matrix: Water

Date Received: 09/28/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	71038	NA	EET HOU	09/29/22 14:44
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/29/22 16:37
Total/NA	Prep	8015NM Aq Prep			71197	SAR	EET HOU	09/29/22 15:45
Total/NA	Analysis	8015B NM		1	71077	T1S	EET HOU	09/30/22 00:03
Total/NA	Analysis	300.0		1	71148	A1S	EET HOU	09/29/22 20:00
Total/NA	Analysis	300.0		1	71149	A1S	EET HOU	09/29/22 20:00
Total/NA	Analysis	SM 2320B		1	71396	TL	EET HOU	09/30/22 13:11
Total/NA	Analysis	SM 4500 CO2 D		1	71418	AA	EET HOU	09/30/22 16:58
Total/NA	Analysis	SM 4500 H+ B		1	71362	TL	EET HOU	09/30/22 13:04
Total/NA	Analysis	SM 4500 S2 F		1	71833	SCI	EET HOU	10/04/22 14:54

Client Sample ID: MW-2

Lab Sample ID: 880-19777-2

Date Collected: 09/28/22 11:50

Matrix: Water

Date Received: 09/28/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	71038	NA	EET HOU	09/29/22 15:04
Total/NA	Analysis	8015 NM		1	68755	DD	EET HOU	09/29/22 16:37
Total/NA	Prep	8015NM Aq Prep			71197	SAR	EET HOU	09/29/22 15:45
Total/NA	Analysis	8015B NM		1	71077	T1S	EET HOU	09/30/22 00:22
Total/NA	Analysis	300.0		1	71148	A1S	EET HOU	09/29/22 20:35
Total/NA	Analysis	300.0		1	71149	A1S	EET HOU	09/29/22 20:35
Total/NA	Analysis	SM 2320B		1	71396	TL	EET HOU	09/30/22 13:55
Total/NA	Analysis	SM 4500 CO2 D		1	71418	AA	EET HOU	09/30/22 16:58
Total/NA	Analysis	SM 4500 H+ B		1	71362	TL	EET HOU	09/30/22 13:05
Total/NA	Analysis	SM 4500 S2 F		1	71833	SCI	EET HOU	10/04/22 14:54

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-19777-1

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	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		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)
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: 880-19777-1

Project/Site: South Hobbs - 03B1417002

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 F	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

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:

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

Sample Summary

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

Job ID: 880-19777-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19777-1	MW-1	Water	09/28/22 11:00	09/28/22 14:55
880-19777-2	MW-2	Water	09/28/22 11:50	09/28/22 14:55

- 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: 19777

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marrenfeld #400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email:	jennings@ensolum.com

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

ANALYSIS REQUEST

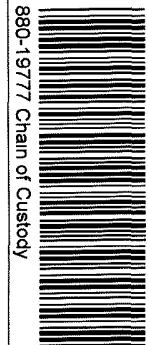
Work Order Notes

Project Name:	South Hobbs	Turn Around	
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):	5.8	Thermometer ID				
Received Intact:	Yes ☒	No ☐				
Cooler Custody Seals:	Yes ☒	No ☐	Correction Factor:			
Sample Custody Seals:	Yes ☒	No ☐	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
MW-1	GW	5-28-22	1100	-
MW-2	GW	5-28-22	1150	-

Number of Containers		ANALYSIS REQUEST										Work Order Notes	
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													



880-19777 Chain of Custody

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

Sample Comments

24 Hr

CUSTODY SEAL
DATE 5-28-22
SIGNATURE



Quality Environmental Containe
800-255-3950 • www.qecusa.com

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 J 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
		5/28/22			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-19777-1

Login Number: 19777

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: 880-19777-1

Login Number: 19777

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 09/29/22 02:00 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	



ANALYTICAL REPORT

September 15, 2022

Ensolum, LLC

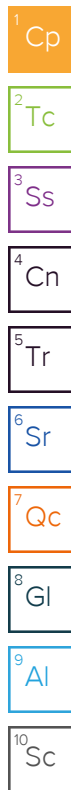
Sample Delivery Group: L1534511
Samples Received: 09/10/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
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	
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TRRP form R	6	
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		¹⁰ Sc

LEVEY WELL L1534511-01 Air

Collected by
Shane Diller

Collected date/time
09/08/22 12:47

Received date/time
09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1925454	2000	09/13/22 20:06	09/13/22 20:06	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1926261	40000	09/14/22 22:14	09/14/22 22:14	SDS	Mt. Juliet, TN

¹Cp

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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.



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

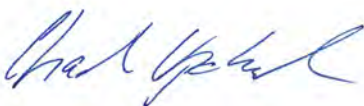
¹⁰ Sc

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.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 09/15/2022 12:11				
Project Name: Levey Well			Laboratory Job Number: L1534511-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1925454 and WG1926261				
# 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: 09/15/2022 12:11				
Project Name: Levey Well			Laboratory Job Number: L1534511-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1925454 and WG1926261				
# 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: 09/15/2022 12:11	
Project Name: Levey Well		Laboratory Job Number: L1534511-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1925454 and WG1926261	
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: 09/08/22 12:47

L1534511

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	2500	5940	24200	57500		2000	WG1925454
Allyl chloride	107-05-1	76.53	400	1250	ND	ND		2000	WG1925454
Benzene	71-43-2	78.10	400	1280	ND	ND		2000	WG1925454
Benzyl Chloride	100-44-7	127	400	2080	ND	ND		2000	WG1925454
Bromodichloromethane	75-27-4	164	400	2680	ND	ND		2000	WG1925454
Bromoform	75-25-2	253	1200	12400	ND	ND		2000	WG1925454
Bromomethane	74-83-9	94.90	400	1550	ND	ND		2000	WG1925454
1,3-Butadiene	106-99-0	54.10	4000	8850	ND	ND		2000	WG1925454
Carbon disulfide	75-15-0	76.10	400	1240	ND	ND		2000	WG1925454
Carbon tetrachloride	56-23-5	154	400	2520	ND	ND		2000	WG1925454
Chlorobenzene	108-90-7	113	400	1850	ND	ND		2000	WG1925454
Chloroethane	75-00-3	64.50	400	1060	ND	ND		2000	WG1925454
Chloroform	67-66-3	119	400	1950	ND	ND		2000	WG1925454
Chloromethane	74-87-3	50.50	400	826	ND	ND		2000	WG1925454
2-Chlorotoluene	95-49-8	126	400	2060	ND	ND		2000	WG1925454
Cyclohexane	110-82-7	84.20	400	1380	117000	403000		2000	WG1925454
Dibromochloromethane	124-48-1	208	400	3400	ND	ND		2000	WG1925454
1,2-Dibromoethane	106-93-4	188	400	3080	ND	ND		2000	WG1925454
1,2-Dichlorobenzene	95-50-1	147	400	2400	ND	ND		2000	WG1925454
1,3-Dichlorobenzene	541-73-1	147	400	2400	ND	ND		2000	WG1925454
1,4-Dichlorobenzene	106-46-7	147	400	2400	ND	ND		2000	WG1925454
1,2-Dichloroethane	107-06-2	99	400	1620	ND	ND		2000	WG1925454
1,1-Dichloroethane	75-34-3	98	400	1600	ND	ND		2000	WG1925454
1,1-Dichloroethene	75-35-4	96.90	400	1590	ND	ND		2000	WG1925454
cis-1,2-Dichloroethene	156-59-2	96.90	400	1590	ND	ND		2000	WG1925454
trans-1,2-Dichloroethene	156-60-5	96.90	400	1590	ND	ND		2000	WG1925454
1,2-Dichloropropane	78-87-5	113	400	1850	ND	ND		2000	WG1925454
cis-1,3-Dichloropropene	10061-01-5	111	400	1820	ND	ND		2000	WG1925454
trans-1,3-Dichloropropene	10061-02-6	111	400	1820	ND	ND		2000	WG1925454
1,4-Dioxane	123-91-1	88.10	400	1440	ND	ND		2000	WG1925454
Ethanol	64-17-5	46.10	2500	4710	2990	5640		2000	WG1925454
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG1925454
4-Ethyltoluene	622-96-8	120	400	1960	ND	ND		2000	WG1925454
Trichlorofluoromethane	75-69-4	137.40	400	2250	ND	ND		2000	WG1925454
Dichlorodifluoromethane	75-71-8	120.92	400	1980	ND	ND		2000	WG1925454
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	400	3070	ND	ND		2000	WG1925454
1,2-Dichlorotetrafluoroethane	76-14-2	171	400	2800	ND	ND		2000	WG1925454
Heptane	142-82-5	100	400	1640	158000	646000		2000	WG1925454
Hexachloro-1,3-butadiene	87-68-3	261	1260	13500	ND	ND		2000	WG1925454
n-Hexane	110-54-3	86.20	25200	88800	1710000	6030000		40000	WG1926261
Isopropylbenzene	98-82-8	120.20	400	1970	ND	ND		2000	WG1925454
Methylene Chloride	75-09-2	84.90	400	1390	ND	ND		2000	WG1925454
Methyl Butyl Ketone	591-78-6	100	2500	10200	ND	ND		2000	WG1925454
2-Butanone (MEK)	78-93-3	72.10	2500	7370	15800	46600		2000	WG1925454
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2500	10200	ND	ND		2000	WG1925454
Methyl methacrylate	80-62-6	100.12	400	1640	ND	ND		2000	WG1925454
MTBE	1634-04-4	88.10	400	1440	ND	ND		2000	WG1925454
Naphthalene	91-20-3	128	1260	6600	ND	ND		2000	WG1925454
2-Propanol	67-63-0	60.10	2500	6150	12300	30200		2000	WG1925454
Propene	115-07-1	42.10	2500	4300	ND	ND		2000	WG1925454
Styrene	100-42-5	104	400	1700	ND	ND		2000	WG1925454
1,1,2,2-Tetrachloroethane	79-34-5	168	400	2750	ND	ND		2000	WG1925454
Tetrachloroethylene	127-18-4	166	400	2720	ND	ND		2000	WG1925454
Tetrahydrofuran	109-99-9	72.10	400	1180	ND	ND		2000	WG1925454
Toluene	108-88-3	92.10	1000	3770	ND	ND		2000	WG1925454
1,2,4-Trichlorobenzene	120-82-1	181	1260	9330	ND	ND		2000	WG1925454

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/08/22 12:47

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	400	2180	ND	ND		2000	WG1925454
1,1,2-Trichloroethane	79-00-5	133	400	2180	ND	ND		2000	WG1925454
Trichloroethylene	79-01-6	131	400	2140	ND	ND		2000	WG1925454
1,2,4-Trimethylbenzene	95-63-6	120	400	1960	ND	ND		2000	WG1925454
1,3,5-Trimethylbenzene	108-67-8	120	400	1960	ND	ND		2000	WG1925454
2,2,4-Trimethylpentane	540-84-1	114.22	400	1870	ND	ND		2000	WG1925454
Vinyl chloride	75-01-4	62.50	400	1020	ND	ND		2000	WG1925454
Vinyl Bromide	593-60-2	106.95	400	1750	ND	ND		2000	WG1925454
Vinyl acetate	108-05-4	86.10	400	1410	14100	49700		2000	WG1925454
m&p-Xylene	1330-20-7	106	800	3470	ND	ND		2000	WG1925454
o-Xylene	95-47-6	106	400	1730	ND	ND		2000	WG1925454
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	4790000	19800000		2000	WG1925454
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.2				WG1925454
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.7				WG1926261

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3837020-3 09/13/22 09:59

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
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3837020-3 09/13/22 09:59

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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	0.144	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	94.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837020-1 09/13/22 08:40 • (LCSD) R3837020-2 09/13/22 09:20

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	3.40	3.45	90.7	92.0	70.0-130			1.46	25
Allyl Chloride	3.75	3.72	3.41	99.2	90.9	70.0-130			8.70	25
Benzene	3.75	3.88	3.98	103	106	70.0-130			2.54	25
Benzyl Chloride	3.75	4.05	4.05	108	108	70.0-152			0.000	25
Bromodichloromethane	3.75	3.79	3.90	101	104	70.0-130			2.86	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837020-1 09/13/22 08:40 • (LCSD) R3837020-2 09/13/22 09:20

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	4.00	4.12	107	110	70.0-130			2.96	25
Bromomethane	3.75	3.78	3.75	101	100	70.0-130			0.797	25
1,3-Butadiene	3.75	3.14	3.15	83.7	84.0	70.0-130			0.318	25
Carbon disulfide	3.75	4.03	4.11	107	110	70.0-130			1.97	25
Carbon tetrachloride	3.75	3.84	3.93	102	105	70.0-130			2.32	25
Chlorobenzene	3.75	3.85	3.97	103	106	70.0-130			3.07	25
Chloroethane	3.75	3.57	3.62	95.2	96.5	70.0-130			1.39	25
Chloroform	3.75	3.87	3.95	103	105	70.0-130			2.05	25
Chloromethane	3.75	3.33	3.40	88.8	90.7	70.0-130			2.08	25
2-Chlorotoluene	3.75	3.91	4.01	104	107	70.0-130			2.53	25
Cyclohexane	3.75	3.99	4.11	106	110	70.0-130			2.96	25
Dibromochloromethane	3.75	3.84	3.97	102	106	70.0-130			3.33	25
1,2-Dibromoethane	3.75	3.90	4.05	104	108	70.0-130			3.77	25
1,2-Dichlorobenzene	3.75	3.98	4.10	106	109	70.0-130			2.97	25
1,3-Dichlorobenzene	3.75	3.94	4.05	105	108	70.0-130			2.75	25
1,4-Dichlorobenzene	3.75	3.93	4.00	105	107	70.0-130			1.77	25
1,2-Dichloroethane	3.75	3.58	3.69	95.5	98.4	70.0-130			3.03	25
1,1-Dichloroethane	3.75	3.82	3.88	102	103	70.0-130			1.56	25
1,1-Dichloroethene	3.75	3.79	3.86	101	103	70.0-130			1.83	25
cis-1,2-Dichloroethene	3.75	3.74	3.85	99.7	103	70.0-130			2.90	25
trans-1,2-Dichloroethene	3.75	3.79	3.87	101	103	70.0-130			2.09	25
1,2-Dichloropropane	3.75	3.70	3.87	98.7	103	70.0-130			4.49	25
cis-1,3-Dichloropropene	3.75	3.95	4.05	105	108	70.0-130			2.50	25
trans-1,3-Dichloropropene	3.75	3.91	4.02	104	107	70.0-130			2.77	25
1,4-Dioxane	3.75	4.04	4.11	108	110	70.0-140			1.72	25
Ethanol	3.75	3.40	3.45	90.7	92.0	55.0-148			1.46	25
Ethylbenzene	3.75	4.00	4.04	107	108	70.0-130			0.995	25
4-Ethyltoluene	3.75	4.01	4.14	107	110	70.0-130			3.19	25
Trichlorofluoromethane	3.75	3.60	3.70	96.0	98.7	70.0-130			2.74	25
Dichlorodifluoromethane	3.75	3.82	3.86	102	103	64.0-139			1.04	25
1,1,2-Trichlorotrifluoroethane	3.75	3.98	4.03	106	107	70.0-130			1.25	25
1,2-Dichlorotetrafluoroethane	3.75	3.81	3.91	102	104	70.0-130			2.59	25
Heptane	3.75	3.42	3.53	91.2	94.1	70.0-130			3.17	25
Hexachloro-1,3-butadiene	3.75	3.84	3.95	102	105	70.0-151			2.82	25
Isopropylbenzene	3.75	4.02	4.15	107	111	70.0-130			3.18	25
Methylene Chloride	3.75	3.33	3.41	88.8	90.9	70.0-130			2.37	25
Methyl Butyl Ketone	3.75	3.56	3.64	94.9	97.1	70.0-149			2.22	25
Methyl Ethyl Ketone	3.75	3.97	4.05	106	108	70.0-130			2.00	25
4-Methyl-2-pentanone (MIBK)	3.75	3.42	3.54	91.2	94.4	70.0-139			3.45	25
Methyl Methacrylate	3.75	3.94	4.07	105	109	70.0-130			3.25	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837020-1 09/13/22 08:40 • (LCSD) R3837020-2 09/13/22 09:20

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.04	4.15	108	111	70.0-130			2.69	25
Naphthalene	3.75	3.70	3.71	98.7	98.9	70.0-159			0.270	25
2-Propanol	3.75	3.52	3.60	93.9	96.0	70.0-139			2.25	25
Propene	3.75	3.39	3.50	90.4	93.3	64.0-144			3.19	25
Styrene	3.75	4.08	4.20	109	112	70.0-130			2.90	25
1,1,2,2-Tetrachloroethane	3.75	3.89	3.96	104	106	70.0-130			1.78	25
Tetrachloroethylene	3.75	3.92	4.05	105	108	70.0-130			3.26	25
Tetrahydrofuran	3.75	3.38	3.47	90.1	92.5	70.0-137			2.63	25
Toluene	3.75	3.86	3.99	103	106	70.0-130			3.31	25
1,2,4-Trichlorobenzene	3.75	3.56	3.59	94.9	95.7	70.0-160			0.839	25
1,1,1-Trichloroethane	3.75	3.85	3.91	103	104	70.0-130			1.55	25
1,1,2-Trichloroethane	3.75	3.82	3.97	102	106	70.0-130			3.85	25
Trichloroethylene	3.75	3.86	3.94	103	105	70.0-130			2.05	25
1,2,4-Trimethylbenzene	3.75	4.04	4.12	108	110	70.0-130			1.96	25
1,3,5-Trimethylbenzene	3.75	4.00	4.07	107	109	70.0-130			1.73	25
2,2,4-Trimethylpentane	3.75	3.77	3.83	101	102	70.0-130			1.58	25
Vinyl chloride	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
Vinyl Bromide	3.75	3.78	3.81	101	102	70.0-130			0.791	25
Vinyl acetate	3.75	3.60	3.58	96.0	95.5	70.0-130			0.557	25
m&p-Xylene	7.50	7.96	8.14	106	109	70.0-130			2.24	25
o-Xylene	3.75	4.03	4.10	107	109	70.0-130			1.72	25
TPH (GC/MS) Low Fraction	203	211	215	104	106	70.0-130			1.88	25
(S) 1,4-Bromofluorobenzene				100	99.5	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1534511-01](#)

Method Blank (MB)

(MB) R3837531-3 09/14/22 13:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	97.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3837531-1 09/14/22 12:19 • (LCSD) R3837531-2 09/14/22 13:00

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.63	3.55	96.8	94.7	70.0-130			2.23	25
(S) 1,4-Bromofluorobenzene				99.6	99.4	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.



Released to Imaging: 3/21/2024 3:37:05 PM



ANALYTICAL REPORT

September 22, 2022

Ensolum, LLC

Sample Delivery Group: L1537012
Samples Received: 09/17/2022
Project Number: 03B1417001
Description: Levey Well
Site: LEVEY WELL
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

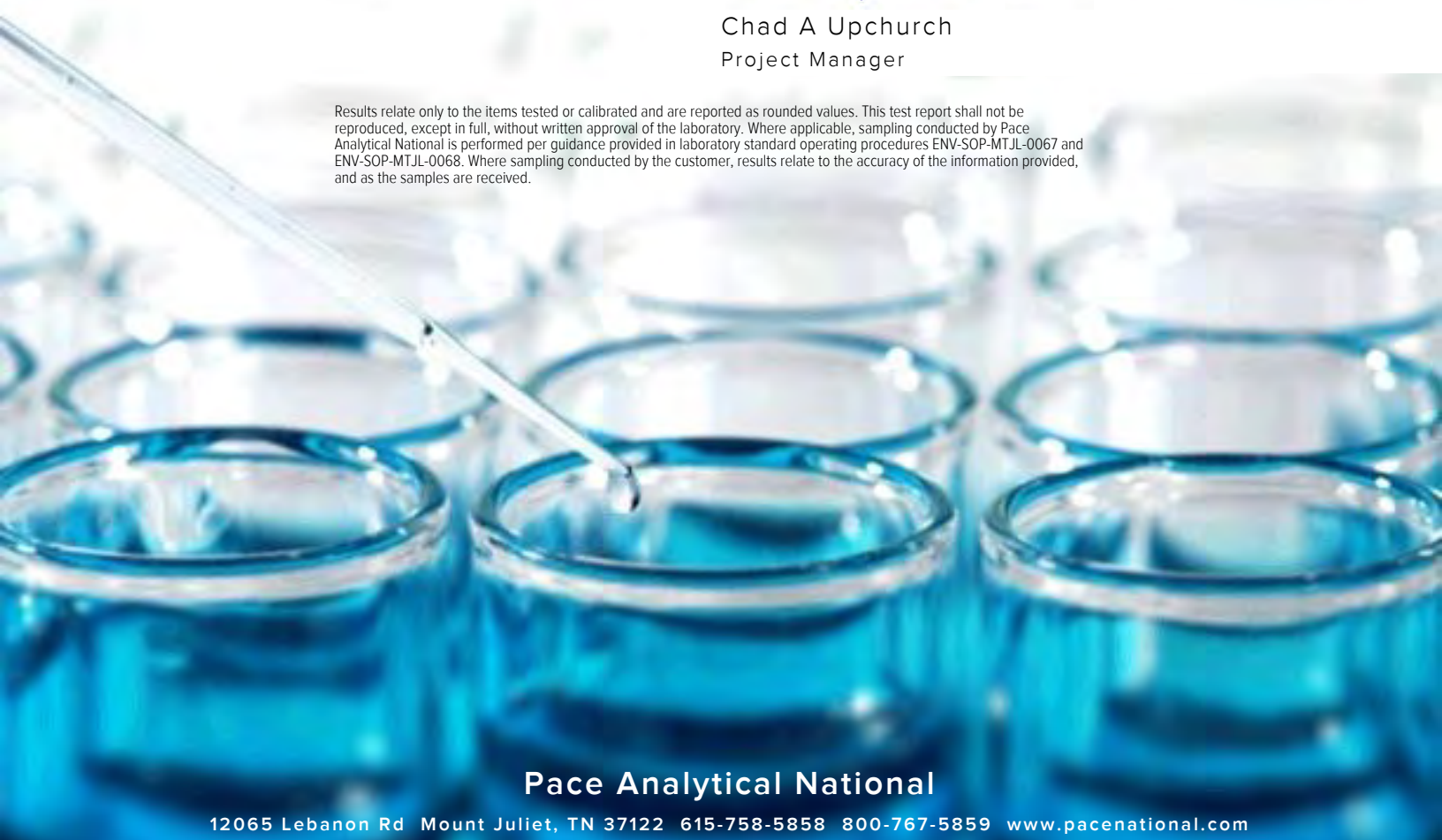


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
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 L1537012-01	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 L1537012-01 Air

Collected by
Beaux Jennings

Collected date/time
09/15/22 13:42

Received date/time
09/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1929179	50	09/20/22 20:46	09/20/22 20:46	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1929804	1000	09/21/22 22:24	09/21/22 22:24	FKG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

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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.



Chad A Upchurch
Project Manager

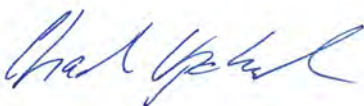
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 09/22/2022 09:04				
Project Name: Levey Well			Laboratory Job Number: L1537012-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1929179 and WG1929804				
# 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: 09/22/2022 09:04					
Project Name: Levey Well		Laboratory Job Number: L1537012-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1929179 and WG1929804					
# 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: 09/22/2022 09:04	
Project Name: Levey Well		Laboratory Job Number: L1537012-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1929179 and WG1929804	
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: 09/15/22 13:42

L1537012

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	62.5	149	ND	ND		50	WG1929179
Allyl chloride	107-05-1	76.53	10.0	31.3	ND	ND		50	WG1929179
Benzene	71-43-2	78.10	10.0	31.9	ND	ND		50	WG1929179
Benzyl Chloride	100-44-7	127	10.0	51.9	ND	ND		50	WG1929179
Bromodichloromethane	75-27-4	164	10.0	67.1	ND	ND		50	WG1929179
Bromoform	75-25-2	253	30.0	310	ND	ND		50	WG1929179
Bromomethane	74-83-9	94.90	10.0	38.8	ND	ND		50	WG1929179
1,3-Butadiene	106-99-0	54.10	100	221	ND	ND		50	WG1929179
Carbon disulfide	75-15-0	76.10	10.0	31.1	15.1	47.0		50	WG1929179
Carbon tetrachloride	56-23-5	154	10.0	63.0	ND	ND		50	WG1929179
Chlorobenzene	108-90-7	113	10.0	46.2	ND	ND		50	WG1929179
Chloroethane	75-00-3	64.50	10.0	26.4	ND	ND		50	WG1929179
Chloroform	67-66-3	119	10.0	48.7	ND	ND		50	WG1929179
Chloromethane	74-87-3	50.50	10.0	20.7	ND	ND		50	WG1929179
2-Chlorotoluene	95-49-8	126	10.0	51.5	ND	ND		50	WG1929179
Cyclohexane	110-82-7	84.20	200	689	8450	29100		1000	WG1929804
Dibromochloromethane	124-48-1	208	10.0	85.1	ND	ND		50	WG1929179
1,2-Dibromoethane	106-93-4	188	10.0	76.9	ND	ND		50	WG1929179
1,2-Dichlorobenzene	95-50-1	147	10.0	60.1	ND	ND		50	WG1929179
1,3-Dichlorobenzene	541-73-1	147	10.0	60.1	ND	ND		50	WG1929179
1,4-Dichlorobenzene	106-46-7	147	10.0	60.1	ND	ND		50	WG1929179
1,2-Dichloroethane	107-06-2	99	10.0	40.5	ND	ND		50	WG1929179
1,1-Dichloroethane	75-34-3	98	10.0	40.1	ND	ND		50	WG1929179
1,1-Dichloroethene	75-35-4	96.90	10.0	39.6	ND	ND		50	WG1929179
cis-1,2-Dichloroethene	156-59-2	96.90	10.0	39.6	ND	ND		50	WG1929179
trans-1,2-Dichloroethene	156-60-5	96.90	10.0	39.6	ND	ND		50	WG1929179
1,2-Dichloropropane	78-87-5	113	10.0	46.2	ND	ND		50	WG1929179
cis-1,3-Dichloropropene	10061-01-5	111	10.0	45.4	ND	ND		50	WG1929179
trans-1,3-Dichloropropene	10061-02-6	111	10.0	45.4	ND	ND		50	WG1929179
1,4-Dioxane	123-91-1	88.10	10.0	36.0	ND	ND		50	WG1929179
Ethanol	64-17-5	46.10	62.5	118	704	1330		50	WG1929179
Ethylbenzene	100-41-4	106	10.0	43.4	ND	ND		50	WG1929179
4-Ethyltoluene	622-96-8	120	10.0	49.1	ND	ND		50	WG1929179
Trichlorofluoromethane	75-69-4	137.40	10.0	56.2	ND	ND		50	WG1929179
Dichlorodifluoromethane	75-71-8	120.92	10.0	49.5	ND	ND		50	WG1929179
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	10.0	76.6	ND	ND		50	WG1929179
1,2-Dichlorotetrafluoroethane	76-14-2	171	10.0	69.9	ND	ND		50	WG1929179
Heptane	142-82-5	100	200	818	14600	59700		1000	WG1929804
Hexachloro-1,3-butadiene	87-68-3	261	31.5	336	ND	ND		50	WG1929179
n-Hexane	110-54-3	86.20	630	2220	100000	353000		1000	WG1929804
Isopropylbenzene	98-82-8	120.20	10.0	49.2	ND	ND		50	WG1929179
Methylene Chloride	75-09-2	84.90	10.0	34.7	22.4	77.8		50	WG1929179
Methyl Butyl Ketone	591-78-6	100	62.5	256	ND	ND		50	WG1929179
2-Butanone (MEK)	78-93-3	72.10	62.5	184	457	1350		50	WG1929179
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	62.5	256	ND	ND		50	WG1929179
Methyl methacrylate	80-62-6	100.12	10.0	40.9	ND	ND		50	WG1929179
MTBE	1634-04-4	88.10	10.0	36.0	ND	ND		50	WG1929179
Naphthalene	91-20-3	128	31.5	165	ND	ND		50	WG1929179
2-Propanol	67-63-0	60.10	62.5	154	2470	6070		50	WG1929179
Propene	115-07-1	42.10	62.5	108	ND	ND		50	WG1929179
Styrene	100-42-5	104	10.0	42.5	ND	ND		50	WG1929179
1,1,2,2-Tetrachloroethane	79-34-5	168	10.0	68.7	ND	ND		50	WG1929179
Tetrachloroethylene	127-18-4	166	10.0	67.9	11.8	80.1		50	WG1929179
Tetrahydrofuran	109-99-9	72.10	10.0	29.5	ND	ND		50	WG1929179
Toluene	108-88-3	92.10	25.0	94.2	ND	ND		50	WG1929179
1,2,4-Trichlorobenzene	120-82-1	181	31.5	233	ND	ND		50	WG1929179

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/15/22 13:42

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	10.0	54.4	ND	ND		50	WG1929179
1,1,2-Trichloroethane	79-00-5	133	10.0	54.4	ND	ND		50	WG1929179
Trichloroethylene	79-01-6	131	10.0	53.6	ND	ND		50	WG1929179
1,2,4-Trimethylbenzene	95-63-6	120	10.0	49.1	ND	ND		50	WG1929179
1,3,5-Trimethylbenzene	108-67-8	120	10.0	49.1	ND	ND		50	WG1929179
2,2,4-Trimethylpentane	540-84-1	114.22	10.0	46.7	ND	ND		50	WG1929179
Vinyl chloride	75-01-4	62.50	10.0	25.6	ND	ND		50	WG1929179
Vinyl Bromide	593-60-2	106.95	10.0	43.7	ND	ND		50	WG1929179
Vinyl acetate	108-05-4	86.10	10.0	35.2	ND	ND		50	WG1929179
m&p-Xylene	1330-20-7	106	20.0	86.7	ND	ND		50	WG1929179
o-Xylene	95-47-6	106	10.0	43.4	ND	ND		50	WG1929179
TPH (GC/MS) Low Fraction	8006-61-9	101	10000	41300	201000	830000		50	WG1929179
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.4				WG1929179
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.8				WG1929804

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1537012-01

Method Blank (MB)

(MB) R3839528-2 09/20/22 10:10

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	0.269	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

Method Blank (MB)

(MB) R3839528-2 09/20/22 10:10

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	0.150	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	58.9	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.2			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3839528-1 09/20/22 09:40 • (LCSD) R3839528-3 09/20/22 11:09

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	4.22	4.81	113	128	70.0-130			13.1	25
Allyl Chloride	3.75	4.36	4.24	116	113	70.0-130			2.79	25
Benzene	3.75	3.66	3.60	97.6	96.0	70.0-130			1.65	25
Benzyl Chloride	3.75	3.63	3.70	96.8	98.7	70.0-152			1.91	25
Bromodichloromethane	3.75	3.53	3.55	94.1	94.7	70.0-130			0.565	25
Bromoform	3.75	3.39	3.49	90.4	93.1	70.0-130			2.91	25
Bromomethane	3.75	4.12	4.06	110	108	70.0-130			1.47	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3839528-1 09/20/22 09:40 • (LCSD) R3839528-3 09/20/22 11:09

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	4.24	4.24	113	113	70.0-130			0.000	25
Carbon disulfide	3.75	4.39	4.43	117	118	70.0-130			0.907	25
Carbon tetrachloride	3.75	3.54	3.54	94.4	94.4	70.0-130			0.000	25
Chlorobenzene	3.75	3.58	3.57	95.5	95.2	70.0-130			0.280	25
Chloroethane	3.75	4.15	4.14	111	110	70.0-130			0.241	25
Chloroform	3.75	3.72	3.68	99.2	98.1	70.0-130			1.08	25
Chloromethane	3.75	4.30	4.28	115	114	70.0-130			0.466	25
2-Chlorotoluene	3.75	3.66	3.70	97.6	98.7	70.0-130			1.09	25
Dibromochloromethane	3.75	3.36	3.42	89.6	91.2	70.0-130			1.77	25
1,2-Dibromoethane	3.75	3.54	3.50	94.4	93.3	70.0-130			1.14	25
1,2-Dichlorobenzene	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
1,3-Dichlorobenzene	3.75	3.64	3.63	97.1	96.8	70.0-130			0.275	25
1,4-Dichlorobenzene	3.75	3.69	3.67	98.4	97.9	70.0-130			0.543	25
1,2-Dichloroethane	3.75	3.72	3.68	99.2	98.1	70.0-130			1.08	25
1,1-Dichloroethane	3.75	3.75	3.75	100	100	70.0-130			0.000	25
1,1-Dichloroethene	3.75	4.36	4.37	116	117	70.0-130			0.229	25
cis-1,2-Dichloroethene	3.75	3.70	3.75	98.7	100	70.0-130			1.34	25
trans-1,2-Dichloroethene	3.75	4.42	4.38	118	117	70.0-130			0.909	25
1,2-Dichloropropane	3.75	3.66	3.67	97.6	97.9	70.0-130			0.273	25
cis-1,3-Dichloropropene	3.75	3.61	3.65	96.3	97.3	70.0-130			1.10	25
trans-1,3-Dichloropropene	3.75	3.54	3.58	94.4	95.5	70.0-130			1.12	25
1,4-Dioxane	3.75	3.25	3.18	86.7	84.8	70.0-140			2.18	25
Ethanol	3.75	4.09	4.03	109	107	55.0-148			1.48	25
Ethylbenzene	3.75	3.66	3.62	97.6	96.5	70.0-130			1.10	25
4-Ethyltoluene	3.75	3.66	3.62	97.6	96.5	70.0-130			1.10	25
Trichlorofluoromethane	3.75	4.20	4.21	112	112	70.0-130			0.238	25
Dichlorodifluoromethane	3.75	4.42	4.45	118	119	64.0-139			0.676	25
1,1,2-Trichlorotrifluoroethane	3.75	4.34	4.32	116	115	70.0-130			0.462	25
1,2-Dichlorotetrafluoroethane	3.75	4.39	4.33	117	115	70.0-130			1.38	25
Hexachloro-1,3-butadiene	3.75	3.52	3.54	93.9	94.4	70.0-151			0.567	25
Isopropylbenzene	3.75	3.70	3.67	98.7	97.9	70.0-130			0.814	25
Methylene Chloride	3.75	4.36	4.27	116	114	70.0-130			2.09	25
Methyl Butyl Ketone	3.75	3.36	3.37	89.6	89.9	70.0-149			0.297	25
Methyl Ethyl Ketone	3.75	3.76	3.70	100	98.7	70.0-130			1.61	25
4-Methyl-2-pentanone (MIBK)	3.75	3.71	3.68	98.9	98.1	70.0-139			0.812	25
Methyl Methacrylate	3.75	3.46	3.45	92.3	92.0	70.0-130			0.289	25
MTBE	3.75	3.77	3.72	101	99.2	70.0-130			1.34	25
Naphthalene	3.75	3.69	3.61	98.4	96.3	70.0-159			2.19	25
2-Propanol	3.75	4.51	4.49	120	120	70.0-139			0.444	25
Propene	3.75	3.87	3.78	103	101	64.0-144			2.35	25

¹Cp

²Tc

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⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3839528-1 09/20/22 09:40 • (LCSD) R3839528-3 09/20/22 11:09

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	3.75	3.56	3.57	94.9	95.2	70.0-130			0.281	25
1,1,2,2-Tetrachloroethane	3.75	3.61	3.66	96.3	97.6	70.0-130			1.38	25
Tetrachloroethylene	3.75	3.50	3.53	93.3	94.1	70.0-130			0.853	25
Tetrahydrofuran	3.75	3.65	3.57	97.3	95.2	70.0-137			2.22	25
Toluene	3.75	3.59	3.58	95.7	95.5	70.0-130			0.279	25
1,2,4-Trichlorobenzene	3.75	3.54	3.57	94.4	95.2	70.0-160			0.844	25
1,1,1-Trichloroethane	3.75	3.69	3.68	98.4	98.1	70.0-130			0.271	25
1,1,2-Trichloroethane	3.75	3.49	3.51	93.1	93.6	70.0-130			0.571	25
Trichloroethylene	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
1,2,4-Trimethylbenzene	3.75	3.77	3.77	101	101	70.0-130			0.000	25
1,3,5-Trimethylbenzene	3.75	3.65	3.67	97.3	97.9	70.0-130			0.546	25
2,2,4-Trimethylpentane	3.75	3.79	3.77	101	101	70.0-130			0.529	25
Vinyl chloride	3.75	4.33	4.28	115	114	70.0-130			1.16	25
Vinyl Bromide	3.75	4.17	4.20	111	112	70.0-130			0.717	25
Vinyl acetate	3.75	3.43	3.38	91.5	90.1	70.0-130			1.47	25
m&p-Xylene	7.50	7.63	7.60	102	101	70.0-130			0.394	25
o-Xylene	3.75	3.73	3.69	99.5	98.4	70.0-130			1.08	25
TPH (GC/MS) Low Fraction	203	236	236	116	116	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				98.1	99.3	60.0-140				

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⁹Al

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Volatile Organic Compounds (MS) by Method TO-15 [L1537012-01](#)

Method Blank (MB)

(MB) R3839605-3 09/21/22 09:51

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
(S) 1,4-Bromofluorobenzene	90.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3839605-1 09/21/22 08:33 • (LCSD) R3839605-2 09/21/22 09:13

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	4.11	4.13	110	110	70.0-130			0.485	25
Heptane	3.75	4.25	4.18	113	111	70.0-130			1.66	25
n-Hexane	3.75	4.18	4.17	111	111	70.0-130			0.240	25
(S) 1,4-Bromofluorobenzene				96.0	96.4	60.0-140				

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Cp

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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

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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.

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[illegible]



ANALYTICAL REPORT

October 03, 2022

Ensolum, LLC

Sample Delivery Group: L1540581
Samples Received: 09/28/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

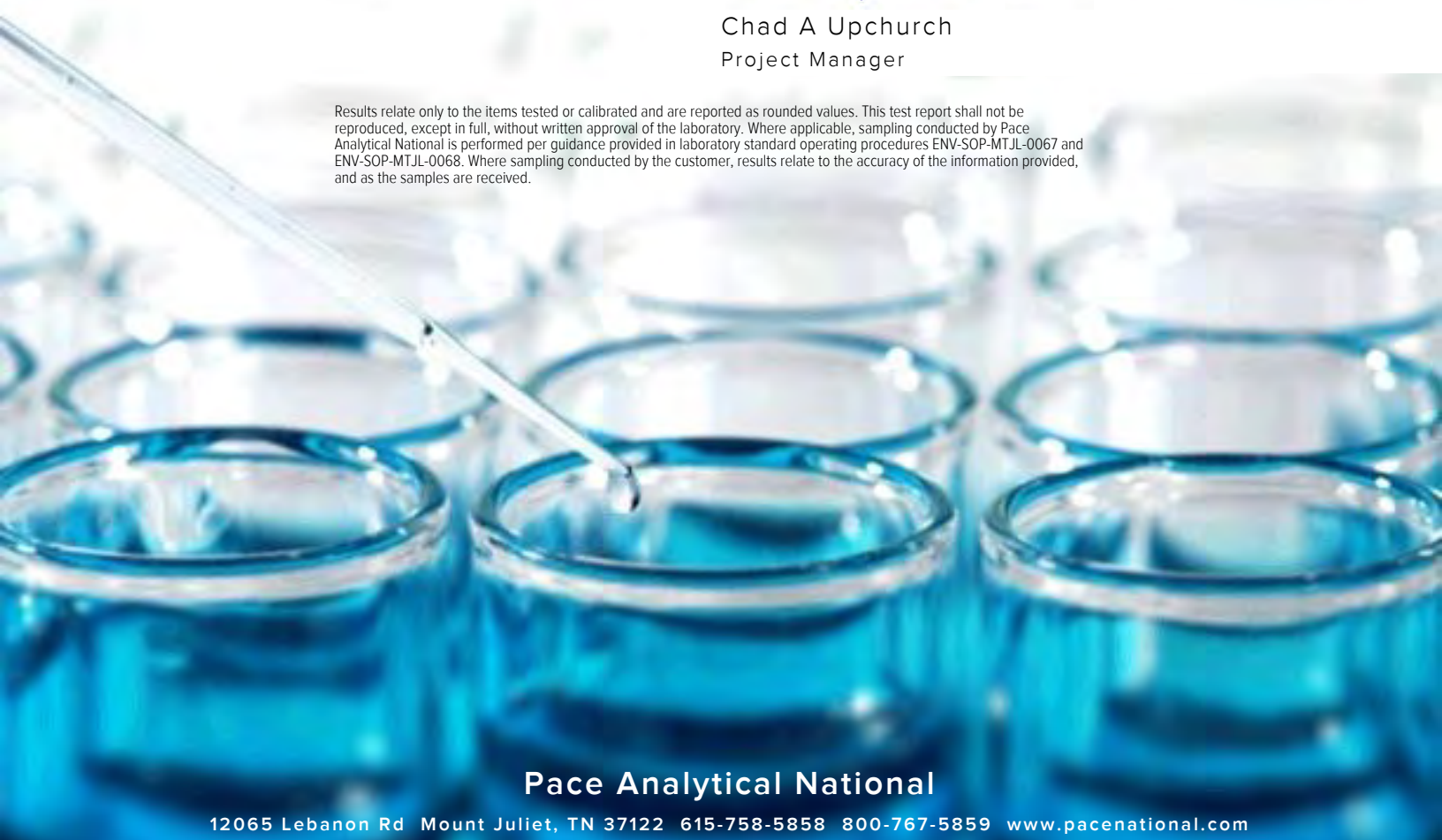


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
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 L1540581-01	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 L1540581-01 Air

Collected by
Shane Diller

Collected date/time
09/22/22 13:37

Received date/time
09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1935683	4000	10/02/22 01:06	10/02/22 01:06	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1936362	400000	10/03/22 11:31	10/03/22 11:31	CEP	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.



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

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⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

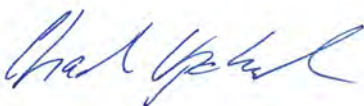
¹⁰ Sc

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.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 10/03/2022 17:01				
Project Name: Levey Well			Laboratory Job Number: L1540581-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1935683 and WG1936362				
# 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			1
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: 10/03/2022 17:01					
Project Name: Levey Well		Laboratory Job Number: L1540581-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1935683 and WG1936362					
# 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: 10/03/2022 17:01	
Project Name: Levey Well		Laboratory Job Number: L1540581-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1935683 and WG1936362	
ER #¹	Description		
1	TO-15 WG1935683 Trichloroethylene: Relative Percent Difference 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: 09/22/22 13:37

L1540581

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	5000	11900	63600	151000		4000	WG1935683
Allyl chloride	107-05-1	76.53	800	2500	ND	ND		4000	WG1935683
Benzene	71-43-2	78.10	800	2560	ND	ND		4000	WG1935683
Benzyl Chloride	100-44-7	127	800	4160	ND	ND		4000	WG1935683
Bromodichloromethane	75-27-4	164	800	5370	ND	ND		4000	WG1935683
Bromoform	75-25-2	253	2400	24800	ND	ND		4000	WG1935683
Bromomethane	74-83-9	94.90	800	3110	ND	ND		4000	WG1935683
1,3-Butadiene	106-99-0	54.10	8000	17700	ND	ND		4000	WG1935683
Carbon disulfide	75-15-0	76.10	800	2490	ND	ND		4000	WG1935683
Carbon tetrachloride	56-23-5	154	800	5040	ND	ND		4000	WG1935683
Chlorobenzene	108-90-7	113	800	3700	ND	ND		4000	WG1935683
Chloroethane	75-00-3	64.50	800	2110	ND	ND		4000	WG1935683
Chloroform	67-66-3	119	800	3890	ND	ND		4000	WG1935683
Chloromethane	74-87-3	50.50	800	1650	ND	ND		4000	WG1935683
2-Chlorotoluene	95-49-8	126	800	4120	ND	ND		4000	WG1935683
Cyclohexane	110-82-7	84.20	800	2760	161000	554000		4000	WG1935683
Dibromochloromethane	124-48-1	208	800	6810	ND	ND		4000	WG1935683
1,2-Dibromoethane	106-93-4	188	800	6150	ND	ND		4000	WG1935683
1,2-Dichlorobenzene	95-50-1	147	800	4810	ND	ND		4000	WG1935683
1,3-Dichlorobenzene	541-73-1	147	800	4810	ND	ND		4000	WG1935683
1,4-Dichlorobenzene	106-46-7	147	800	4810	ND	ND		4000	WG1935683
1,2-Dichloroethane	107-06-2	99	800	3240	ND	ND		4000	WG1935683
1,1-Dichloroethane	75-34-3	98	800	3210	ND	ND		4000	WG1935683
1,1-Dichloroethene	75-35-4	96.90	800	3170	ND	ND		4000	WG1935683
cis-1,2-Dichloroethene	156-59-2	96.90	800	3170	ND	ND		4000	WG1935683
trans-1,2-Dichloroethene	156-60-5	96.90	800	3170	ND	ND		4000	WG1935683
1,2-Dichloropropane	78-87-5	113	800	3700	ND	ND		4000	WG1935683
cis-1,3-Dichloropropene	10061-01-5	111	800	3630	ND	ND		4000	WG1935683
trans-1,3-Dichloropropene	10061-02-6	111	800	3630	ND	ND		4000	WG1935683
1,4-Dioxane	123-91-1	88.10	800	2880	ND	ND		4000	WG1935683
Ethanol	64-17-5	46.10	5000	9430	153000	288000		4000	WG1935683
Ethylbenzene	100-41-4	106	800	3470	827	3590		4000	WG1935683
4-Ethyltoluene	622-96-8	120	800	3930	ND	ND		4000	WG1935683
Trichlorofluoromethane	75-69-4	137.40	800	4500	ND	ND		4000	WG1935683
Dichlorodifluoromethane	75-71-8	120.92	800	3960	ND	ND		4000	WG1935683
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	800	6130	ND	ND		4000	WG1935683
1,2-Dichlorotetrafluoroethane	76-14-2	171	800	5600	ND	ND		4000	WG1935683
Heptane	142-82-5	100	800	3270	140000	573000		4000	WG1935683
Hexachloro-1,3-butadiene	87-68-3	261	2520	26900	ND	ND		4000	WG1935683
n-Hexane	110-54-3	86.20	252000	888000	9980000	35200000		400000	WG1936362
Isopropylbenzene	98-82-8	120.20	800	3930	ND	ND		4000	WG1935683
Methylene Chloride	75-09-2	84.90	800	2780	ND	ND		4000	WG1935683
Methyl Butyl Ketone	591-78-6	100	5000	20400	ND	ND		4000	WG1935683
2-Butanone (MEK)	78-93-3	72.10	5000	14700	19400	57200		4000	WG1935683
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	5000	20500	ND	ND		4000	WG1935683
Methyl methacrylate	80-62-6	100.12	800	3280	1880	7700		4000	WG1935683
MTBE	1634-04-4	88.10	800	2880	ND	ND		4000	WG1935683
Naphthalene	91-20-3	128	2520	13200	ND	ND		4000	WG1935683
2-Propanol	67-63-0	60.10	500000	1230000	2820000	6930000		400000	WG1936362
Propene	115-07-1	42.10	5000	8610	ND	ND		4000	WG1935683
Styrene	100-42-5	104	800	3400	966	4110		4000	WG1935683
1,1,2,2-Tetrachloroethane	79-34-5	168	800	5500	ND	ND		4000	WG1935683
Tetrachloroethylene	127-18-4	166	800	5430	4980	33800		4000	WG1935683
Tetrahydrofuran	109-99-9	72.10	800	2360	ND	ND		4000	WG1935683
Toluene	108-88-3	92.10	2000	7530	4540	17100		4000	WG1935683
1,2,4-Trichlorobenzene	120-82-1	181	2520	18700	ND	ND		4000	WG1935683

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/22/22 13:37

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	800	4350	ND	ND		4000	WG1935683
1,1,2-Trichloroethane	79-00-5	133	800	4350	ND	ND		4000	WG1935683
Trichloroethylene	79-01-6	131	800	4290	ND	ND	J3	4000	WG1935683
1,2,4-Trimethylbenzene	95-63-6	120	800	3930	1240	6090		4000	WG1935683
1,3,5-Trimethylbenzene	108-67-8	120	800	3930	ND	ND		4000	WG1935683
2,2,4-Trimethylpentane	540-84-1	114.22	800	3740	ND	ND		4000	WG1935683
Vinyl chloride	75-01-4	62.50	800	2040	ND	ND		4000	WG1935683
Vinyl Bromide	593-60-2	106.95	800	3500	ND	ND		4000	WG1935683
Vinyl acetate	108-05-4	86.10	800	2820	ND	ND		4000	WG1935683
m&p-Xylene	1330-20-7	106	1600	6940	3230	14000		4000	WG1935683
o-Xylene	95-47-6	106	800	3470	1540	6680		4000	WG1935683
TPH (GC/MS) Low Fraction	8006-61-9	101	800000	3300000	6710000	27700000		4000	WG1935683
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.3				WG1935683
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.8				WG1936362

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3843883-2 10/01/22 08:04

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
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3843883-2 10/01/22 08:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
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
Propene	0.226	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	93.7			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843883-1 10/01/22 07:27 • (LCSD) R3843883-3 10/01/22 10:30

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	3.71	3.33	98.9	88.8	70.0-130			10.8	25
Allyl Chloride	3.75	3.66	3.23	97.6	86.1	70.0-130			12.5	25
Benzene	3.75	4.11	3.21	110	85.6	70.0-130			24.6	25
Benzyl Chloride	3.75	4.09	3.39	109	90.4	70.0-152			18.7	25
Bromodichloromethane	3.75	3.89	3.15	104	84.0	70.0-130			21.0	25
Bromoform	3.75	4.02	3.27	107	87.2	70.0-130			20.6	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843883-1 10/01/22 07:27 • (LCSD) R3843883-3 10/01/22 10:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.60	2.99	96.0	79.7	70.0-130			18.5	25
1,3-Butadiene	3.75	3.97	3.31	106	88.3	70.0-130			18.1	25
Carbon disulfide	3.75	3.92	3.36	105	89.6	70.0-130			15.4	25
Carbon tetrachloride	3.75	4.06	3.55	108	94.7	70.0-130			13.4	25
Chlorobenzene	3.75	4.23	3.38	113	90.1	70.0-130			22.3	25
Chloroethane	3.75	3.27	2.77	87.2	73.9	70.0-130			16.6	25
Chloroform	3.75	3.90	3.32	104	88.5	70.0-130			16.1	25
Chloromethane	3.75	3.77	3.24	101	86.4	70.0-130			15.1	25
2-Chlorotoluene	3.75	4.26	3.41	114	90.9	70.0-130			22.2	25
Cyclohexane	3.75	3.84	3.30	102	88.0	70.0-130			15.1	25
Dibromochloromethane	3.75	4.12	3.25	110	86.7	70.0-130			23.6	25
1,2-Dibromoethane	3.75	4.15	3.25	111	86.7	70.0-130			24.3	25
1,2-Dichlorobenzene	3.75	4.31	3.54	115	94.4	70.0-130			19.6	25
1,3-Dichlorobenzene	3.75	4.37	3.60	117	96.0	70.0-130			19.3	25
1,4-Dichlorobenzene	3.75	4.48	3.67	119	97.9	70.0-130			19.9	25
1,2-Dichloroethane	3.75	3.97	3.16	106	84.3	70.0-130			22.7	25
1,1-Dichloroethane	3.75	3.93	3.40	105	90.7	70.0-130			14.5	25
1,1-Dichloroethene	3.75	3.90	3.29	104	87.7	70.0-130			17.0	25
cis-1,2-Dichloroethene	3.75	3.68	3.15	98.1	84.0	70.0-130			15.5	25
trans-1,2-Dichloroethene	3.75	3.85	3.31	103	88.3	70.0-130			15.1	25
1,2-Dichloropropane	3.75	4.00	3.12	107	83.2	70.0-130			24.7	25
cis-1,3-Dichloropropene	3.75	3.91	3.19	104	85.1	70.0-130			20.3	25
trans-1,3-Dichloropropene	3.75	3.96	3.21	106	85.6	70.0-130			20.9	25
1,4-Dioxane	3.75	3.84	3.09	102	82.4	70.0-140			21.6	25
Ethanol	3.75	3.92	3.12	105	83.2	55.0-148			22.7	25
Ethylbenzene	3.75	4.10	3.28	109	87.5	70.0-130			22.2	25
4-Ethyltoluene	3.75	4.12	3.34	110	89.1	70.0-130			20.9	25
Trichlorofluoromethane	3.75	3.94	3.31	105	88.3	70.0-130			17.4	25
Dichlorodifluoromethane	3.75	4.08	3.56	109	94.9	64.0-139			13.6	25
1,1,2-Trichlorotrifluoroethane	3.75	4.19	3.54	112	94.4	70.0-130			16.8	25
1,2-Dichlorotetrafluoroethane	3.75	4.18	3.51	111	93.6	70.0-130			17.4	25
Heptane	3.75	3.88	3.10	103	82.7	70.0-130			22.3	25
Hexachloro-1,3-butadiene	3.75	4.21	3.39	112	90.4	70.0-151			21.6	25
Isopropylbenzene	3.75	4.08	3.33	109	88.8	70.0-130			20.2	25
Methylene Chloride	3.75	3.69	3.22	98.4	85.9	70.0-130			13.6	25
Methyl Butyl Ketone	3.75	3.57	2.88	95.2	76.8	70.0-149			21.4	25
Methyl Ethyl Ketone	3.75	4.01	3.46	107	92.3	70.0-130			14.7	25
4-Methyl-2-pentanone (MIBK)	3.75	3.71	3.01	98.9	80.3	70.0-139			20.8	25
Methyl Methacrylate	3.75	3.71	2.96	98.9	78.9	70.0-130			22.5	25
MTBE	3.75	3.95	3.38	105	90.1	70.0-130			15.6	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 L1540581-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843883-1 10/01/22 07:27 • (LCSD) R3843883-3 10/01/22 10:30

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	3.75	4.20	3.35	112	89.3	70.0-159			22.5	25
Propene	3.75	3.50	3.16	93.3	84.3	64.0-144			10.2	25
Styrene	3.75	4.13	3.41	110	90.9	70.0-130			19.1	25
1,1,2,2-Tetrachloroethane	3.75	4.00	3.26	107	86.9	70.0-130			20.4	25
Tetrachloroethylene	3.75	4.30	3.42	115	91.2	70.0-130			22.8	25
Tetrahydrofuran	3.75	3.42	3.05	91.2	81.3	70.0-137			11.4	25
Toluene	3.75	4.06	3.22	108	85.9	70.0-130			23.1	25
1,2,4-Trichlorobenzene	3.75	4.31	3.48	115	92.8	70.0-160			21.3	25
1,1,1-Trichloroethane	3.75	3.93	3.42	105	91.2	70.0-130			13.9	25
1,1,2-Trichloroethane	3.75	4.00	3.18	107	84.8	70.0-130			22.8	25
Trichloroethylene	3.75	4.04	3.12	108	83.2	70.0-130		J3	25.7	25
1,2,4-Trimethylbenzene	3.75	4.14	3.35	110	89.3	70.0-130			21.1	25
1,3,5-Trimethylbenzene	3.75	4.18	3.46	111	92.3	70.0-130			18.8	25
2,2,4-Trimethylpentane	3.75	3.89	3.35	104	89.3	70.0-130			14.9	25
Vinyl chloride	3.75	4.42	3.72	118	99.2	70.0-130			17.2	25
Vinyl Bromide	3.75	3.76	3.17	100	84.5	70.0-130			17.0	25
Vinyl acetate	3.75	3.66	3.19	97.6	85.1	70.0-130			13.7	25
m&p-Xylene	7.50	8.26	6.68	110	89.1	70.0-130			21.2	25
o-Xylene	3.75	4.12	3.31	110	88.3	70.0-130			21.8	25
TPH (GC/MS) Low Fraction	203	236	187	116	92.1	70.0-130			23.2	25
(S) 1,4-Bromofluorobenzene				96.5	94.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1540581-01](#)

Method Blank (MB)

(MB) R3844099-3 10/03/22 10:11

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
n-Hexane	U		0.206	0.630
2-Propanol	U		0.264	1.25
(S) 1,4-Bromofluorobenzene	95.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3844099-1 10/03/22 09:12 • (LCSD) R3844099-2 10/03/22 09:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	4.78	4.77	127	127	70.0-130			0.209	25
2-Propanol	3.75	4.39	4.31	117	115	70.0-139			1.84	25
(S) 1,4-Bromofluorobenzene				100	99.7	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

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.



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.



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ANALYTICAL REPORT

October 03, 2022

Ensolum, LLC

Sample Delivery Group: L1540595
Samples Received: 09/28/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

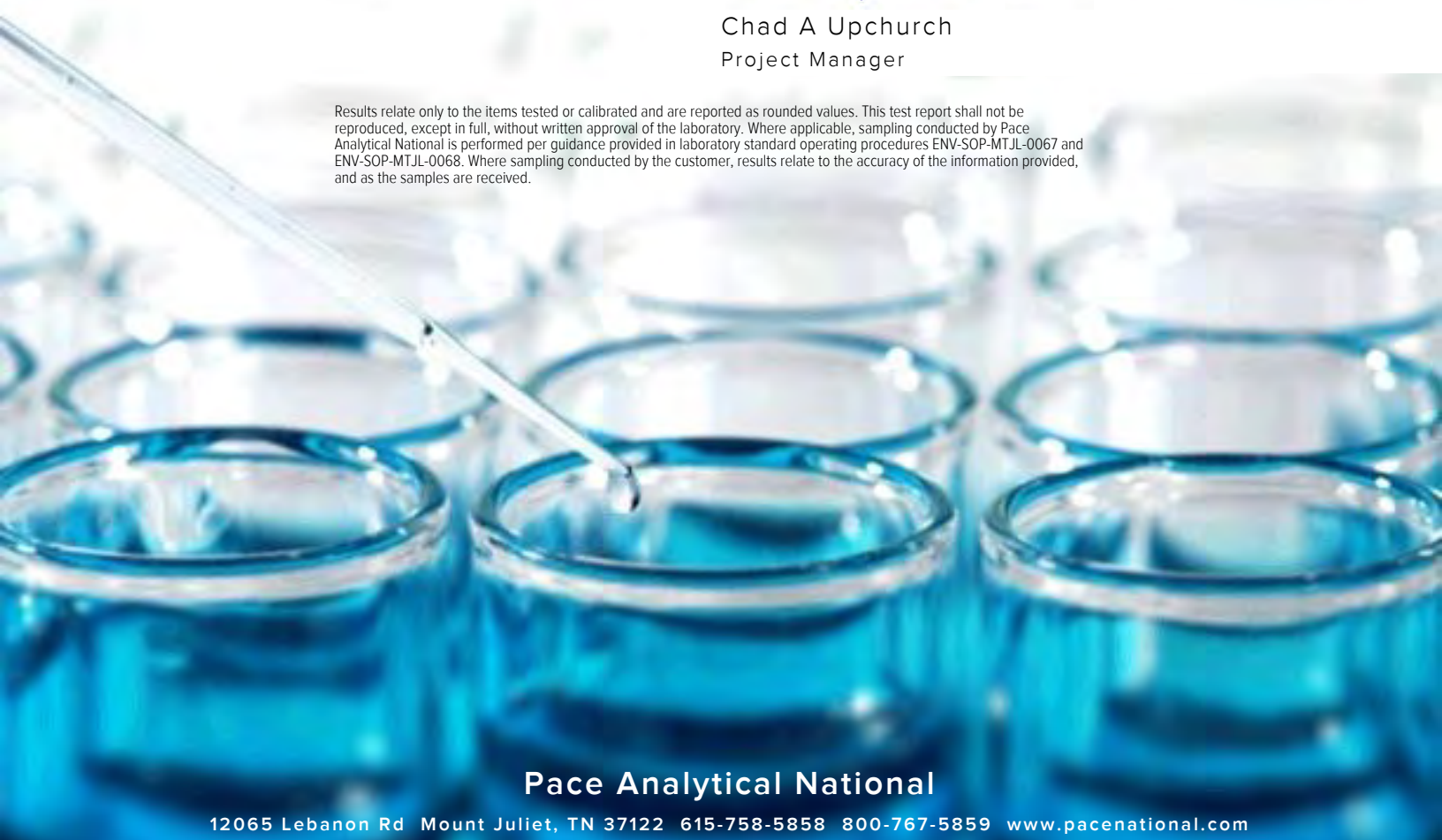


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
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
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Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
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TRRP form S	7	⁴ Cn
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Sr: Sample Results	9	
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LEVEY WELL L1540595-02	11	
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LEVEY WELL L1540595-01 Air

Collected by
Shane Diller

Collected date/time
09/26/22 10:46

Received date/time
09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1935683	1000	10/02/22 00:29	10/02/22 00:29	FKG	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1936362	40000	10/03/22 13:03	10/03/22 13:03	CEP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1540595-02 Air

Collected by
Shane Diller

Collected date/time
09/26/22 14:03

Received date/time
09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1934448	20	09/29/22 22:11	09/29/22 22:11	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1935201	1000	09/30/22 23:20	09/30/22 23:20	SDS	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1540595-03 Air

Collected by
Shane Diller

Collected date/time
09/26/22 15:12

Received date/time
09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1934448	20	09/29/22 22:47	09/29/22 22:47	MBF	Mt. Juliet, TN

⁷Qc

⁸Gl

⁹Al

LEVEY WELL L1540595-04 Air

Collected by
Shane Diller

Collected date/time
09/26/22 16:09

Received date/time
09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1934448	20	09/29/22 23:23	09/29/22 23:23	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1935201	200	09/30/22 22:42	09/30/22 22:42	SDS	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.



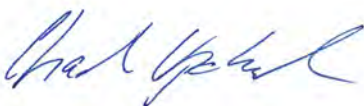
Chad A Upchurch
Project Manager

- 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.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 10/03/2022 17:01					
Project Name: Levey Well		Laboratory Job Number: L1540595-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1934448, WG1935201, WG1935683 and WG1936362					
# 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			1
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: 10/03/2022 17:01					
Project Name: Levey Well		Laboratory Job Number: L1540595-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1934448, WG1935201, WG1935683 and WG1936362					
# 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: 10/03/2022 17:01	
Project Name: Levey Well		Laboratory Job Number: L1540595-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1934448, WG1935201, WG1935683 and WG1936362	
ER #¹	Description		
1	TO-15 WG1935683 Trichloroethylene: Relative Percent Difference 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: 09/26/22 10:46

L1540595

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	1250	2970	16800	39900		1000	WG1935683
Allyl chloride	107-05-1	76.53	200	626	ND	ND		1000	WG1935683
Benzene	71-43-2	78.10	200	639	ND	ND		1000	WG1935683
Benzyl Chloride	100-44-7	127	200	1040	ND	ND		1000	WG1935683
Bromodichloromethane	75-27-4	164	200	1340	ND	ND		1000	WG1935683
Bromoform	75-25-2	253	600	6210	ND	ND		1000	WG1935683
Bromomethane	74-83-9	94.90	200	776	ND	ND		1000	WG1935683
1,3-Butadiene	106-99-0	54.10	2000	4430	ND	ND		1000	WG1935683
Carbon disulfide	75-15-0	76.10	200	622	ND	ND		1000	WG1935683
Carbon tetrachloride	56-23-5	154	200	1260	ND	ND		1000	WG1935683
Chlorobenzene	108-90-7	113	200	924	ND	ND		1000	WG1935683
Chloroethane	75-00-3	64.50	200	528	ND	ND		1000	WG1935683
Chloroform	67-66-3	119	200	973	ND	ND		1000	WG1935683
Chloromethane	74-87-3	50.50	200	413	ND	ND		1000	WG1935683
2-Chlorotoluene	95-49-8	126	200	1030	ND	ND		1000	WG1935683
Cyclohexane	110-82-7	84.20	8000	27600	186000	641000		40000	WG1936362
Dibromochloromethane	124-48-1	208	200	1700	ND	ND		1000	WG1935683
1,2-Dibromoethane	106-93-4	188	200	1540	ND	ND		1000	WG1935683
1,2-Dichlorobenzene	95-50-1	147	200	1200	ND	ND		1000	WG1935683
1,3-Dichlorobenzene	541-73-1	147	200	1200	ND	ND		1000	WG1935683
1,4-Dichlorobenzene	106-46-7	147	200	1200	ND	ND		1000	WG1935683
1,2-Dichloroethane	107-06-2	99	200	810	ND	ND		1000	WG1935683
1,1-Dichloroethane	75-34-3	98	200	802	ND	ND		1000	WG1935683
1,1-Dichloroethene	75-35-4	96.90	200	793	ND	ND		1000	WG1935683
cis-1,2-Dichloroethene	156-59-2	96.90	200	793	ND	ND		1000	WG1935683
trans-1,2-Dichloroethene	156-60-5	96.90	200	793	ND	ND		1000	WG1935683
1,2-Dichloropropane	78-87-5	113	200	924	ND	ND		1000	WG1935683
cis-1,3-Dichloropropene	10061-01-5	111	200	908	ND	ND		1000	WG1935683
trans-1,3-Dichloropropene	10061-02-6	111	200	908	ND	ND		1000	WG1935683
1,4-Dioxane	123-91-1	88.10	200	721	ND	ND		1000	WG1935683
Ethanol	64-17-5	46.10	1250	2360	3030	5710		1000	WG1935683
Ethylbenzene	100-41-4	106	200	867	ND	ND		1000	WG1935683
4-Ethyltoluene	622-96-8	120	200	982	ND	ND		1000	WG1935683
Trichlorofluoromethane	75-69-4	137.40	200	1120	ND	ND		1000	WG1935683
Dichlorodifluoromethane	75-71-8	120.92	200	989	ND	ND		1000	WG1935683
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	200	1530	ND	ND		1000	WG1935683
1,2-Dichlorotetrafluoroethane	76-14-2	171	200	1400	ND	ND		1000	WG1935683
Heptane	142-82-5	100	8000	32700	260000	1060000		40000	WG1936362
Hexachloro-1,3-butadiene	87-68-3	261	630	6730	ND	ND		1000	WG1935683
n-Hexane	110-54-3	86.20	25200	88800	2680000	9450000		40000	WG1936362
Isopropylbenzene	98-82-8	120.20	200	983	ND	ND		1000	WG1935683
Methylene Chloride	75-09-2	84.90	200	694	ND	ND		1000	WG1935683
Methyl Butyl Ketone	591-78-6	100	1250	5110	ND	ND		1000	WG1935683
2-Butanone (MEK)	78-93-3	72.10	1250	3690	6800	20100		1000	WG1935683
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1250	5120	ND	ND		1000	WG1935683
Methyl methacrylate	80-62-6	100.12	200	819	ND	ND		1000	WG1935683
MTBE	1634-04-4	88.10	200	721	ND	ND		1000	WG1935683
Naphthalene	91-20-3	128	630	3300	ND	ND		1000	WG1935683
2-Propanol	67-63-0	60.10	1250	3070	15500	38100		1000	WG1935683
Propene	115-07-1	42.10	1250	2150	ND	ND		1000	WG1935683
Styrene	100-42-5	104	200	851	ND	ND		1000	WG1935683
1,1,2,2-Tetrachloroethane	79-34-5	168	200	1370	ND	ND		1000	WG1935683
Tetrachloroethylene	127-18-4	166	200	1360	ND	ND		1000	WG1935683
Tetrahydrofuran	109-99-9	72.10	200	590	ND	ND		1000	WG1935683
Toluene	108-88-3	92.10	500	1880	ND	ND		1000	WG1935683
1,2,4-Trichlorobenzene	120-82-1	181	630	4660	ND	ND		1000	WG1935683

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/26/22 10:46

L1540595

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	200	1090	ND	ND		1000	WG1935683
1,1,2-Trichloroethane	79-00-5	133	200	1090	ND	ND		1000	WG1935683
Trichloroethylene	79-01-6	131	200	1070	ND	ND	J3	1000	WG1935683
1,2,4-Trimethylbenzene	95-63-6	120	200	982	ND	ND		1000	WG1935683
1,3,5-Trimethylbenzene	108-67-8	120	200	982	ND	ND		1000	WG1935683
2,2,4-Trimethylpentane	540-84-1	114.22	200	934	ND	ND		1000	WG1935683
Vinyl chloride	75-01-4	62.50	200	511	ND	ND		1000	WG1935683
Vinyl Bromide	593-60-2	106.95	200	875	ND	ND		1000	WG1935683
Vinyl acetate	108-05-4	86.10	200	704	ND	ND		1000	WG1935683
m&p-Xylene	1330-20-7	106	400	1730	ND	ND		1000	WG1935683
o-Xylene	95-47-6	106	200	867	ND	ND		1000	WG1935683
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	4750000	19600000		1000	WG1935683
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.4				WG1935683
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.6				WG1936362

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Collected date/time: 09/26/22 14:03

L1540595

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	142	337		20	WG1934448
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1934448
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1934448
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1934448
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1934448
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1934448
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1934448
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1934448
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1934448
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1934448
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1934448
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1934448
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1934448
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1934448
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1934448
Cyclohexane	110-82-7	84.20	4.00	13.8	1210	4170		20	WG1934448
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1934448
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1934448
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1934448
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1934448
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1934448
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1934448
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1934448
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1934448
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1934448
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1934448
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1934448
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1934448
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1934448
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1934448
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1934448
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1934448
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1934448
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1934448
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1934448
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1934448
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1934448
Heptane	142-82-5	100	4.00	16.4	1180	4830		20	WG1934448
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1934448
n-Hexane	110-54-3	86.20	630	2220	9560	33700		1000	WG1935201
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1934448
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1934448
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1934448
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	98.9	292		20	WG1934448
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1934448
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1934448
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1934448
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1934448
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1934448
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1934448
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1934448
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1934448
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1934448
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1934448
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1934448
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1934448



Collected date/time: 09/26/22 14:03

L1540595

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	WG1934448
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1934448
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1934448
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1934448
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1934448
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1934448
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1934448
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1934448
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1934448
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1934448
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1934448
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	45700	189000		20	WG1934448
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1934448
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.5				WG1935201

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/26/22 15:12

L1540595

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	48.8	116		20	WG1934448
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1934448
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1934448
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1934448
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1934448
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1934448
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1934448
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1934448
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1934448
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1934448
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1934448
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1934448
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1934448
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1934448
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1934448
Cyclohexane	110-82-7	84.20	4.00	13.8	241	830		20	WG1934448
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1934448
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1934448
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1934448
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1934448
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1934448
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1934448
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1934448
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1934448
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1934448
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1934448
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1934448
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1934448
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1934448
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1934448
Ethanol	64-17-5	46.10	25.0	47.1	36.1	68.1		20	WG1934448
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1934448
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1934448
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1934448
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1934448
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1934448
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1934448
Heptane	142-82-5	100	4.00	16.4	241	986		20	WG1934448
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1934448
n-Hexane	110-54-3	86.20	12.6	44.4	1170	4120		20	WG1934448
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1934448
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1934448
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1934448
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	35.1	104		20	WG1934448
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1934448
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1934448
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1934448
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1934448
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1934448
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1934448
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1934448
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1934448
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1934448
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1934448
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1934448
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1934448

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/26/22 15:12

L1540595

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	WG1934448
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1934448
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1934448
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1934448
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1934448
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1934448
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1934448
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1934448
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1934448
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1934448
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1934448
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	9470	39100		20	WG1934448
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.3				WG1934448

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 09/26/22 16:09

L1540595

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	125	297		20	WG1934448
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1934448
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1934448
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1934448
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1934448
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1934448
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1934448
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1934448
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1934448
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1934448
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1934448
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1934448
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1934448
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1934448
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1934448
Cyclohexane	110-82-7	84.20	4.00	13.8	610	2100		20	WG1934448
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1934448
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1934448
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1934448
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1934448
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1934448
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1934448
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1934448
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1934448
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1934448
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1934448
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1934448
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1934448
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1934448
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1934448
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1934448
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1934448
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1934448
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1934448
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1934448
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1934448
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1934448
Heptane	142-82-5	100	4.00	16.4	583	2380		20	WG1934448
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1934448
n-Hexane	110-54-3	86.20	126	444	3590	12700		200	WG1935201
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1934448
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1934448
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1934448
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	112	330		20	WG1934448
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1934448
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1934448
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1934448
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1934448
2-Propanol	67-63-0	60.10	25.0	61.5	44.3	109		20	WG1934448
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1934448
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1934448
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1934448
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1934448
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1934448
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1934448
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1934448

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/26/22 16:09

L1540595

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	WG1934448
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1934448
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1934448
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1934448
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	4.83	23.7		20	WG1934448
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1934448
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1934448
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1934448
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1934448
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1934448
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1934448
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	21400	88400		20	WG1934448
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.5				WG1934448
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.4				WG1935201

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3842973-3 09/29/22 10:39

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3842973-3 09/29/22 10:39

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	0.331	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	97.3			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) R3842973-1 09/29/22 09:24 • (LCSD) R3842973-2 09/29/22 10:02

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	3.82	100	102	70.0-130			1.85	25
Allyl Chloride	3.75	3.74	3.78	99.7	101	70.0-130			1.06	25
Benzene	3.75	3.81	3.87	102	103	70.0-130			1.56	25
Benzyl Chloride	3.75	3.74	3.80	99.7	101	70.0-152			1.59	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3842973-1 09/29/22 09:24 • (LCSD) R3842973-2 09/29/22 10:02

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 %
Bromodichloromethane	3.75	3.67	3.72	97.9	99.2	70.0-130			1.35	25
Bromoform	3.75	3.54	3.56	94.4	94.9	70.0-130			0.563	25
Bromomethane	3.75	3.49	3.61	93.1	96.3	70.0-130			3.38	25
1,3-Butadiene	3.75	3.71	3.86	98.9	103	70.0-130			3.96	25
Carbon disulfide	3.75	3.80	3.78	101	101	70.0-130			0.528	25
Carbon tetrachloride	3.75	3.73	3.88	99.5	103	70.0-130			3.94	25
Chlorobenzene	3.75	3.87	3.92	103	105	70.0-130			1.28	25
Chloroethane	3.75	3.48	3.49	92.8	93.1	70.0-130			0.287	25
Chloroform	3.75	3.68	3.75	98.1	100	70.0-130			1.88	25
Chloromethane	3.75	3.85	4.00	103	107	70.0-130			3.82	25
2-Chlorotoluene	3.75	3.88	3.91	103	104	70.0-130			0.770	25
Cyclohexane	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
Dibromochloromethane	3.75	3.72	3.78	99.2	101	70.0-130			1.60	25
1,2-Dibromoethane	3.75	3.81	3.80	102	101	70.0-130			0.263	25
1,2-Dichlorobenzene	3.75	3.88	3.86	103	103	70.0-130			0.517	25
1,3-Dichlorobenzene	3.75	3.92	4.00	105	107	70.0-130			2.02	25
1,4-Dichlorobenzene	3.75	4.03	4.08	107	109	70.0-130			1.23	25
1,2-Dichloroethane	3.75	3.84	3.84	102	102	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.87	3.93	103	105	70.0-130			1.54	25
1,1-Dichloroethene	3.75	3.76	3.94	100	105	70.0-130			4.68	25
cis-1,2-Dichloroethene	3.75	3.49	3.57	93.1	95.2	70.0-130			2.27	25
trans-1,2-Dichloroethene	3.75	3.77	3.82	101	102	70.0-130			1.32	25
1,2-Dichloropropane	3.75	3.80	3.86	101	103	70.0-130			1.57	25
cis-1,3-Dichloropropene	3.75	3.75	3.78	100	101	70.0-130			0.797	25
trans-1,3-Dichloropropene	3.75	3.74	3.70	99.7	98.7	70.0-130			1.08	25
1,4-Dioxane	3.75	3.79	3.81	101	102	70.0-140			0.526	25
Ethanol	3.75	3.35	3.79	89.3	101	55.0-148			12.3	25
Ethylbenzene	3.75	3.74	3.81	99.7	102	70.0-130			1.85	25
4-Ethyltoluene	3.75	3.84	3.88	102	103	70.0-130			1.04	25
Trichlorofluoromethane	3.75	3.93	4.06	105	108	70.0-130			3.25	25
Dichlorodifluoromethane	3.75	3.99	4.12	106	110	64.0-139			3.21	25
1,1,2-Trichlorotrifluoroethane	3.75	3.79	3.87	101	103	70.0-130			2.09	25
1,2-Dichlorotetrafluoroethane	3.75	3.94	3.99	105	106	70.0-130			1.26	25
Heptane	3.75	3.97	3.99	106	106	70.0-130			0.503	25
Hexachloro-1,3-butadiene	3.75	3.85	3.81	103	102	70.0-151			1.04	25
n-Hexane	3.75	3.60	3.76	96.0	100	70.0-130			4.35	25
Isopropylbenzene	3.75	3.76	3.77	100	101	70.0-130			0.266	25
Methylene Chloride	3.75	3.74	3.84	99.7	102	70.0-130			2.64	25
Methyl Butyl Ketone	3.75	3.92	3.94	105	105	70.0-149			0.509	25
Methyl Ethyl Ketone	3.75	3.81	3.85	102	103	70.0-130			1.04	25

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) R3842973-1 09/29/22 09:24 • (LCSD) R3842973-2 09/29/22 10:02

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	3.96	4.02	106	107	70.0-139			1.50	25
Methyl Methacrylate	3.75	3.62	3.60	96.5	96.0	70.0-130			0.554	25
MTBE	3.75	3.61	3.61	96.3	96.3	70.0-130			0.000	25
Naphthalene	3.75	3.94	4.02	105	107	70.0-159			2.01	25
2-Propanol	3.75	3.77	3.83	101	102	70.0-139			1.58	25
Propene	3.75	3.97	3.92	106	105	64.0-144			1.27	25
Styrene	3.75	3.87	3.85	103	103	70.0-130			0.518	25
1,1,2,2-Tetrachloroethane	3.75	3.73	3.80	99.5	101	70.0-130			1.86	25
Tetrachloroethylene	3.75	3.82	3.82	102	102	70.0-130			0.000	25
Tetrahydrofuran	3.75	3.57	3.68	95.2	98.1	70.0-137			3.03	25
Toluene	3.75	3.76	3.80	100	101	70.0-130			1.06	25
1,2,4-Trichlorobenzene	3.75	3.91	3.90	104	104	70.0-160			0.256	25
1,1,1-Trichloroethane	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
1,1,2-Trichloroethane	3.75	3.69	3.70	98.4	98.7	70.0-130			0.271	25
Trichloroethylene	3.75	3.75	3.75	100	100	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	3.79	3.81	101	102	70.0-130			0.526	25
1,3,5-Trimethylbenzene	3.75	3.81	3.83	102	102	70.0-130			0.524	25
2,2,4-Trimethylpentane	3.75	3.72	3.83	99.2	102	70.0-130			2.91	25
Vinyl chloride	3.75	3.88	4.04	103	108	70.0-130			4.04	25
Vinyl Bromide	3.75	3.71	3.75	98.9	100	70.0-130			1.07	25
Vinyl acetate	3.75	3.63	3.74	96.8	99.7	70.0-130			2.99	25
m&p-Xylene	7.50	7.58	7.65	101	102	70.0-130			0.919	25
o-Xylene	3.75	3.79	3.84	101	102	70.0-130			1.31	25
TPH (GC/MS) Low Fraction	203	215	219	106	108	70.0-130			1.84	25
(S) 1,4-Bromofluorobenzene				99.0	98.7	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1540595-02,04](#)

Method Blank (MB)

(MB) R3843569-3 09/30/22 15:21

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	91.7			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843569-1 09/30/22 14:01 • (LCSD) R3843569-2 09/30/22 14:42

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.14	4.18	110	111	70.0-130			0.962	25
(S) 1,4-Bromofluorobenzene				90.1	91.5	60.0-140				

Method Blank (MB)

(MB) R3843883-2 10/01/22 08:04

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

Method Blank (MB)

(MB) R3843883-2 10/01/22 08:04

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	0.226	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	93.7			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843883-1 10/01/22 07:27 • (LCSD) R3843883-3 10/01/22 10:30

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	3.71	3.33	98.9	88.8	70.0-130			10.8	25
Allyl Chloride	3.75	3.66	3.23	97.6	86.1	70.0-130			12.5	25
Benzene	3.75	4.11	3.21	110	85.6	70.0-130			24.6	25
Benzyl Chloride	3.75	4.09	3.39	109	90.4	70.0-152			18.7	25
Bromodichloromethane	3.75	3.89	3.15	104	84.0	70.0-130			21.0	25
Bromoform	3.75	4.02	3.27	107	87.2	70.0-130			20.6	25
Bromomethane	3.75	3.60	2.99	96.0	79.7	70.0-130			18.5	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843883-1 10/01/22 07:27 • (LCSD) R3843883-3 10/01/22 10:30

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 %
1,3-Butadiene	3.75	3.97	3.31	106	88.3	70.0-130			18.1	25
Carbon disulfide	3.75	3.92	3.36	105	89.6	70.0-130			15.4	25
Carbon tetrachloride	3.75	4.06	3.55	108	94.7	70.0-130			13.4	25
Chlorobenzene	3.75	4.23	3.38	113	90.1	70.0-130			22.3	25
Chloroethane	3.75	3.27	2.77	87.2	73.9	70.0-130			16.6	25
Chloroform	3.75	3.90	3.32	104	88.5	70.0-130			16.1	25
Chloromethane	3.75	3.77	3.24	101	86.4	70.0-130			15.1	25
2-Chlorotoluene	3.75	4.26	3.41	114	90.9	70.0-130			22.2	25
Dibromochloromethane	3.75	4.12	3.25	110	86.7	70.0-130			23.6	25
1,2-Dibromoethane	3.75	4.15	3.25	111	86.7	70.0-130			24.3	25
1,2-Dichlorobenzene	3.75	4.31	3.54	115	94.4	70.0-130			19.6	25
1,3-Dichlorobenzene	3.75	4.37	3.60	117	96.0	70.0-130			19.3	25
1,4-Dichlorobenzene	3.75	4.48	3.67	119	97.9	70.0-130			19.9	25
1,2-Dichloroethane	3.75	3.97	3.16	106	84.3	70.0-130			22.7	25
1,1-Dichloroethane	3.75	3.93	3.40	105	90.7	70.0-130			14.5	25
1,1-Dichloroethene	3.75	3.90	3.29	104	87.7	70.0-130			17.0	25
cis-1,2-Dichloroethene	3.75	3.68	3.15	98.1	84.0	70.0-130			15.5	25
trans-1,2-Dichloroethene	3.75	3.85	3.31	103	88.3	70.0-130			15.1	25
1,2-Dichloropropane	3.75	4.00	3.12	107	83.2	70.0-130			24.7	25
cis-1,3-Dichloropropene	3.75	3.91	3.19	104	85.1	70.0-130			20.3	25
trans-1,3-Dichloropropene	3.75	3.96	3.21	106	85.6	70.0-130			20.9	25
1,4-Dioxane	3.75	3.84	3.09	102	82.4	70.0-140			21.6	25
Ethanol	3.75	3.92	3.12	105	83.2	55.0-148			22.7	25
Ethylbenzene	3.75	4.10	3.28	109	87.5	70.0-130			22.2	25
4-Ethyltoluene	3.75	4.12	3.34	110	89.1	70.0-130			20.9	25
Trichlorofluoromethane	3.75	3.94	3.31	105	88.3	70.0-130			17.4	25
Dichlorodifluoromethane	3.75	4.08	3.56	109	94.9	64.0-139			13.6	25
1,1,2-Trichlorotrifluoroethane	3.75	4.19	3.54	112	94.4	70.0-130			16.8	25
1,2-Dichlorotetrafluoroethane	3.75	4.18	3.51	111	93.6	70.0-130			17.4	25
Hexachloro-1,3-butadiene	3.75	4.21	3.39	112	90.4	70.0-151			21.6	25
Isopropylbenzene	3.75	4.08	3.33	109	88.8	70.0-130			20.2	25
Methylene Chloride	3.75	3.69	3.22	98.4	85.9	70.0-130			13.6	25
Methyl Butyl Ketone	3.75	3.57	2.88	95.2	76.8	70.0-149			21.4	25
Methyl Ethyl Ketone	3.75	4.01	3.46	107	92.3	70.0-130			14.7	25
4-Methyl-2-pentanone (MIBK)	3.75	3.71	3.01	98.9	80.3	70.0-139			20.8	25
Methyl Methacrylate	3.75	3.71	2.96	98.9	78.9	70.0-130			22.5	25
MTBE	3.75	3.95	3.38	105	90.1	70.0-130			15.6	25
Naphthalene	3.75	4.20	3.35	112	89.3	70.0-159			22.5	25
2-Propanol	3.75	3.67	3.28	97.9	87.5	70.0-139			11.2	25
Propene	3.75	3.50	3.16	93.3	84.3	64.0-144			10.2	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1540595-01](#)

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3843883-1 10/01/22 07:27 • (LCSD) R3843883-3 10/01/22 10:30

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 %
Styrene	3.75	4.13	3.41	110	90.9	70.0-130			19.1	25
1,1,2,2-Tetrachloroethane	3.75	4.00	3.26	107	86.9	70.0-130			20.4	25
Tetrachloroethylene	3.75	4.30	3.42	115	91.2	70.0-130			22.8	25
Tetrahydrofuran	3.75	3.42	3.05	91.2	81.3	70.0-137			11.4	25
Toluene	3.75	4.06	3.22	108	85.9	70.0-130			23.1	25
1,2,4-Trichlorobenzene	3.75	4.31	3.48	115	92.8	70.0-160			21.3	25
1,1,1-Trichloroethane	3.75	3.93	3.42	105	91.2	70.0-130			13.9	25
1,1,2-Trichloroethane	3.75	4.00	3.18	107	84.8	70.0-130			22.8	25
Trichloroethylene	3.75	4.04	3.12	108	83.2	70.0-130		J3	25.7	25
1,2,4-Trimethylbenzene	3.75	4.14	3.35	110	89.3	70.0-130			21.1	25
1,3,5-Trimethylbenzene	3.75	4.18	3.46	111	92.3	70.0-130			18.8	25
2,2,4-Trimethylpentane	3.75	3.89	3.35	104	89.3	70.0-130			14.9	25
Vinyl chloride	3.75	4.42	3.72	118	99.2	70.0-130			17.2	25
Vinyl Bromide	3.75	3.76	3.17	100	84.5	70.0-130			17.0	25
Vinyl acetate	3.75	3.66	3.19	97.6	85.1	70.0-130			13.7	25
m&p-Xylene	7.50	8.26	6.68	110	89.1	70.0-130			21.2	25
o-Xylene	3.75	4.12	3.31	110	88.3	70.0-130			21.8	25
TPH (GC/MS) Low Fraction	203	236	187	116	92.1	70.0-130			23.2	25
(S) 1,4-Bromofluorobenzene				96.5	94.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1540595-01

Method Blank (MB)

(MB) R3844099-3 10/03/22 10:11

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
(S) 1,4-Bromofluorobenzene	95.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3844099-1 10/03/22 09:12 • (LCSD) R3844099-2 10/03/22 09:42

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	4.32	4.32	115	115	70.0-130			0.000	25
Heptane	3.75	4.36	4.37	116	117	70.0-130			0.229	25
n-Hexane	3.75	4.78	4.77	127	127	70.0-130			0.209	25
(S) 1,4-Bromofluorobenzene				100	99.7	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

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Tr
⁶ Sr
⁷ Qc
⁸ Gl
⁹ Al
¹⁰ Sc

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.



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ANALYTICAL REPORT

October 06, 2022

Ensolum, LLC

Sample Delivery Group: L1542072
Samples Received: 10/03/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
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 National12065 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 L1542072-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	17	⁸ Gl
Al: Accreditations & Locations	18	
Sc: Sample Chain of Custody	19	⁹ Al
		¹⁰ Sc

LEVEY WELL L1542072-01 Air

Collected by
Shane Diller

Collected date/time
09/28/22 12:15

Received date/time
10/03/22 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1938316	100	10/06/22 13:51	10/06/22 13:51	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1938426	2000	10/06/22 15:31	10/06/22 15:31	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1938607	20000	10/06/22 16:15	10/06/22 16:15	CEP	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.



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

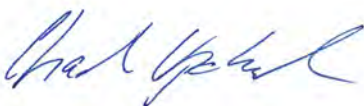
¹⁰ Sc

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.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 10/06/2022 16:46					
Project Name: Levey Well		Laboratory Job Number: L1542072-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1938316, WG1938426 and WG1938607					
#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: 10/06/2022 16:46					
Project Name: Levey Well		Laboratory Job Number: L1542072-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1938316, WG1938426 and WG1938607					
# 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: 10/06/2022 16:46	
Project Name: Levey Well		Laboratory Job Number: L1542072-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1938316, WG1938426 and WG1938607	
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: 09/28/22 12:15

L1542072

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	5960	14200		100	WG1938316
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1938316
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1938316
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1938316
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1938316
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1938316
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1938316
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1938316
Carbon disulfide	75-15-0	76.10	20.0	62.2	43.8	136		100	WG1938316
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1938316
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1938316
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1938316
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1938316
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1938316
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1938316
Cyclohexane	110-82-7	84.20	400	1380	34400	118000		2000	WG1938426
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1938316
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1938316
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1938316
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1938316
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1938316
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1938316
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1938316
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1938316
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1938316
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1938316
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1938316
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1938316
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1938316
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1938316
Ethanol	64-17-5	46.10	125	236	ND	ND		100	WG1938316
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1938316
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1938316
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1938316
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1938316
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1938316
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1938316
Heptane	142-82-5	100	400	1640	58900	241000		2000	WG1938426
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1938316
n-Hexane	110-54-3	86.20	12600	44400	315000	1110000		20000	WG1938607
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1938316
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1938316
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1938316
2-Butanone (MEK)	78-93-3	72.10	125	369	2320	6840		100	WG1938316
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1938316
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1938316
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1938316
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1938316
2-Propanol	67-63-0	60.10	125	307	2710	6660		100	WG1938316
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1938316
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1938316
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1938316
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1938316
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1938316
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG1938316
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1938316

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 09/28/22 12:15

L1542072

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	WG1938316
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1938316
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1938316
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1938316
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG1938316
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1938316
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1938316
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1938316
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1938316
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1938316
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1938316
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	1160000	4790000		2000	WG1938426
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG1938316
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.9				WG1938426
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.6				WG1938607

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3845372-3 10/06/22 09:47

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	0.110	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

Method Blank (MB)

(MB) R3845372-3 10/06/22 09:47

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	0.156	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	90.9			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3845372-1 10/06/22 08:21 • (LCSD) R3845372-2 10/06/22 09:05

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	2.99	3.05	79.7	81.3	70.0-130			1.99	25
Allyl Chloride	3.75	3.40	3.43	90.7	91.5	70.0-130			0.878	25
Benzene	3.75	3.79	3.75	101	100	70.0-130			1.06	25
Benzyl Chloride	3.75	2.92	2.98	77.9	79.5	70.0-152			2.03	25
Bromodichloromethane	3.75	3.70	3.66	98.7	97.6	70.0-130			1.09	25
Bromoform	3.75	3.99	4.13	106	110	70.0-130			3.45	25
Bromomethane	3.75	2.95	3.12	78.7	83.2	70.0-130			5.60	25
1,3-Butadiene	3.75	2.70	2.68	72.0	71.5	70.0-130			0.743	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3845372-1 10/06/22 08:21 • (LCSD) R3845372-2 10/06/22 09:05

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 %
Carbon disulfide	3.75	3.37	3.47	89.9	92.5	70.0-130			2.92	25
Carbon tetrachloride	3.75	3.94	3.88	105	103	70.0-130			1.53	25
Chlorobenzene	3.75	4.18	4.04	111	108	70.0-130			3.41	25
Chloroethane	3.75	2.85	2.99	76.0	79.7	70.0-130			4.79	25
Chloroform	3.75	3.61	3.62	96.3	96.5	70.0-130			0.277	25
Chloromethane	3.75	3.23	3.18	86.1	84.8	70.0-130			1.56	25
2-Chlorotoluene	3.75	4.06	4.25	108	113	70.0-130			4.57	25
Dibromochloromethane	3.75	3.99	3.91	106	104	70.0-130			2.03	25
1,2-Dibromoethane	3.75	3.97	3.86	106	103	70.0-130			2.81	25
1,2-Dichlorobenzene	3.75	4.34	4.45	116	119	70.0-130			2.50	25
1,3-Dichlorobenzene	3.75	4.41	4.56	118	122	70.0-130			3.34	25
1,4-Dichlorobenzene	3.75	4.32	4.51	115	120	70.0-130			4.30	25
1,2-Dichloroethane	3.75	3.59	3.53	95.7	94.1	70.0-130			1.69	25
1,1-Dichloroethane	3.75	3.54	3.52	94.4	93.9	70.0-130			0.567	25
1,1-Dichloroethene	3.75	3.47	3.49	92.5	93.1	70.0-130			0.575	25
cis-1,2-Dichloroethene	3.75	3.58	3.55	95.5	94.7	70.0-130			0.842	25
trans-1,2-Dichloroethene	3.75	3.54	3.57	94.4	95.2	70.0-130			0.844	25
1,2-Dichloropropane	3.75	3.58	3.54	95.5	94.4	70.0-130			1.12	25
cis-1,3-Dichloropropene	3.75	3.80	3.76	101	100	70.0-130			1.06	25
trans-1,3-Dichloropropene	3.75	3.84	3.65	102	97.3	70.0-130			5.07	25
1,4-Dioxane	3.75	3.57	3.70	95.2	98.7	70.0-140			3.58	25
Ethanol	3.75	2.69	2.87	71.7	76.5	55.0-148			6.47	25
Ethylbenzene	3.75	3.99	4.12	106	110	70.0-130			3.21	25
4-Ethyltoluene	3.75	4.03	4.28	107	114	70.0-130			6.02	25
Trichlorofluoromethane	3.75	3.20	3.29	85.3	87.7	70.0-130			2.77	25
Dichlorodifluoromethane	3.75	3.67	3.63	97.9	96.8	64.0-139			1.10	25
1,1,2-Trichlorotrifluoroethane	3.75	3.77	3.73	101	99.5	70.0-130			1.07	25
1,2-Dichlorotetrafluoroethane	3.75	3.68	3.66	98.1	97.6	70.0-130			0.545	25
Hexachloro-1,3-butadiene	3.75	4.18	4.38	111	117	70.0-151			4.67	25
Isopropylbenzene	3.75	4.30	4.39	115	117	70.0-130			2.07	25
Methylene Chloride	3.75	3.20	3.21	85.3	85.6	70.0-130			0.312	25
Methyl Butyl Ketone	3.75	3.28	3.35	87.5	89.3	70.0-149			2.11	25
Methyl Ethyl Ketone	3.75	3.60	3.56	96.0	94.9	70.0-130			1.12	25
4-Methyl-2-pentanone (MIBK)	3.75	3.32	3.32	88.5	88.5	70.0-139			0.000	25
Methyl Methacrylate	3.75	3.23	3.46	86.1	92.3	70.0-130			6.88	25
MTBE	3.75	3.91	3.79	104	101	70.0-130			3.12	25
Naphthalene	3.75	3.73	3.91	99.5	104	70.0-159			4.71	25
2-Propanol	3.75	3.13	3.16	83.5	84.3	70.0-139			0.954	25
Propene	3.75	3.00	3.01	80.0	80.3	64.0-144			0.333	25
Styrene	3.75	4.28	4.48	114	119	70.0-130			4.57	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3845372-1 10/06/22 08:21 • (LCSD) R3845372-2 10/06/22 09:05

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	3.55	3.67	94.7	97.9	70.0-130			3.32	25
Tetrachloroethylene	3.75	4.30	4.24	115	113	70.0-130			1.41	25
Tetrahydrofuran	3.75	3.25	3.25	86.7	86.7	70.0-137			0.000	25
Toluene	3.75	4.01	4.00	107	107	70.0-130			0.250	25
1,2,4-Trichlorobenzene	3.75	3.76	3.98	100	106	70.0-160			5.68	25
1,1,1-Trichloroethane	3.75	3.74	3.78	99.7	101	70.0-130			1.06	25
1,1,2-Trichloroethane	3.75	3.87	3.81	103	102	70.0-130			1.56	25
Trichloroethylene	3.75	3.87	3.84	103	102	70.0-130			0.778	25
1,2,4-Trimethylbenzene	3.75	4.09	4.34	109	116	70.0-130			5.93	25
1,3,5-Trimethylbenzene	3.75	4.16	4.30	111	115	70.0-130			3.31	25
2,2,4-Trimethylpentane	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
Vinyl chloride	3.75	2.97	3.10	79.2	82.7	70.0-130			4.28	25
Vinyl Bromide	3.75	3.21	3.29	85.6	87.7	70.0-130			2.46	25
Vinyl acetate	3.75	3.45	3.50	92.0	93.3	70.0-130			1.44	25
m&p-Xylene	7.50	8.29	8.52	111	114	70.0-130			2.74	25
o-Xylene	3.75	4.08	4.31	109	115	70.0-130			5.48	25
(S) 1,4-Bromofluorobenzene				95.4	99.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1542072-01](#)

Method Blank (MB)

(MB) R3845399-3 10/06/22 09:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	93.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3845399-1 10/06/22 08:19 • (LCSD) R3845399-2 10/06/22 09:01

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	4.49	4.54	120	121	70.0-130			1.11	25
Heptane	3.75	4.18	4.17	111	111	70.0-130			0.240	25
TPH (GC/MS) Low Fraction	203	255	255	126	126	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				96.1	95.3	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3845537-3 10/06/22 09:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	93.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3845537-1 10/06/22 08:19 • (LCSD) R3845537-2 10/06/22 09:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.67	4.69	125	125	70.0-130			0.427	25
(S) 1,4-Bromofluorobenzene				96.1	95.3	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

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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.

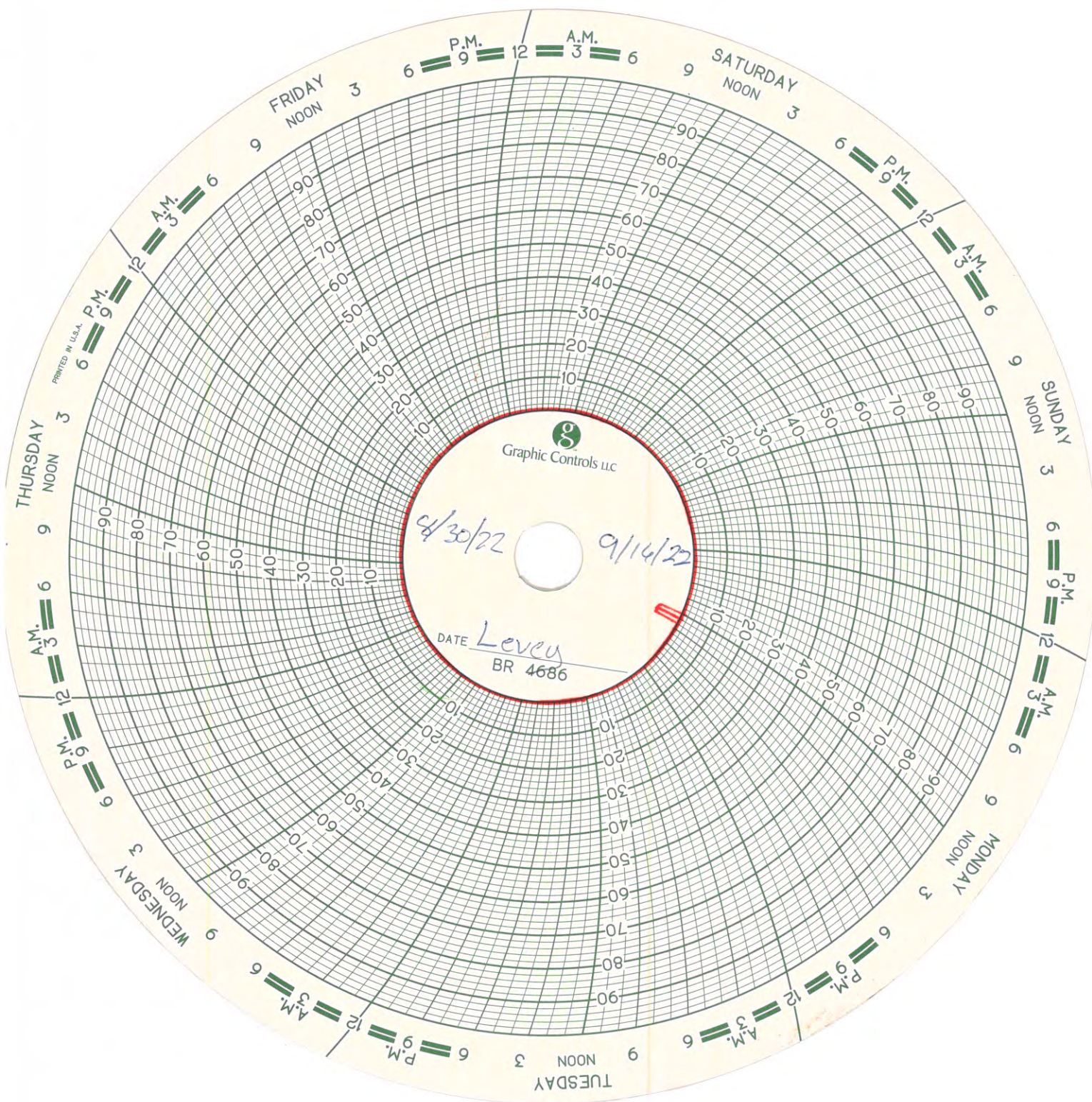


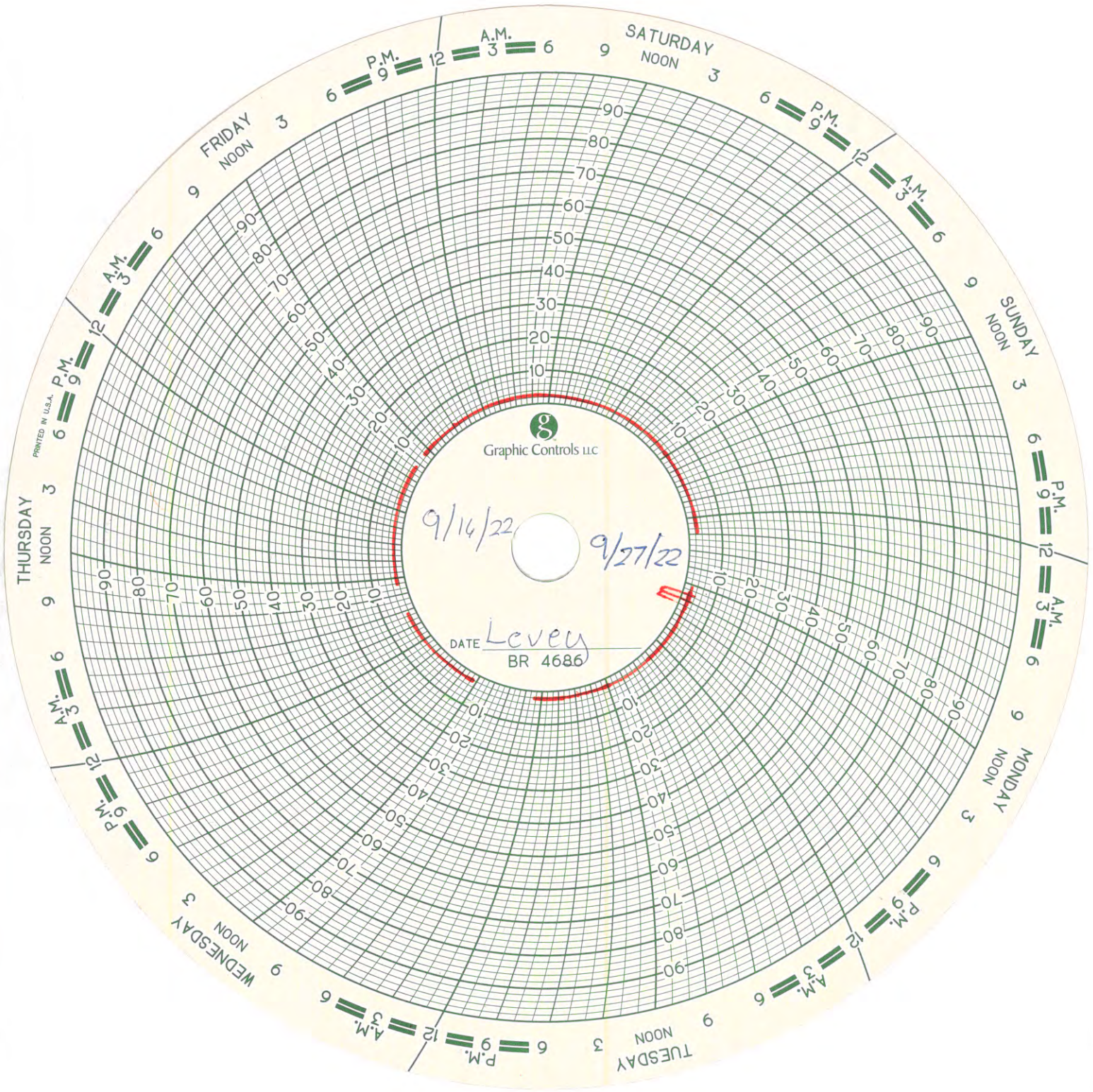
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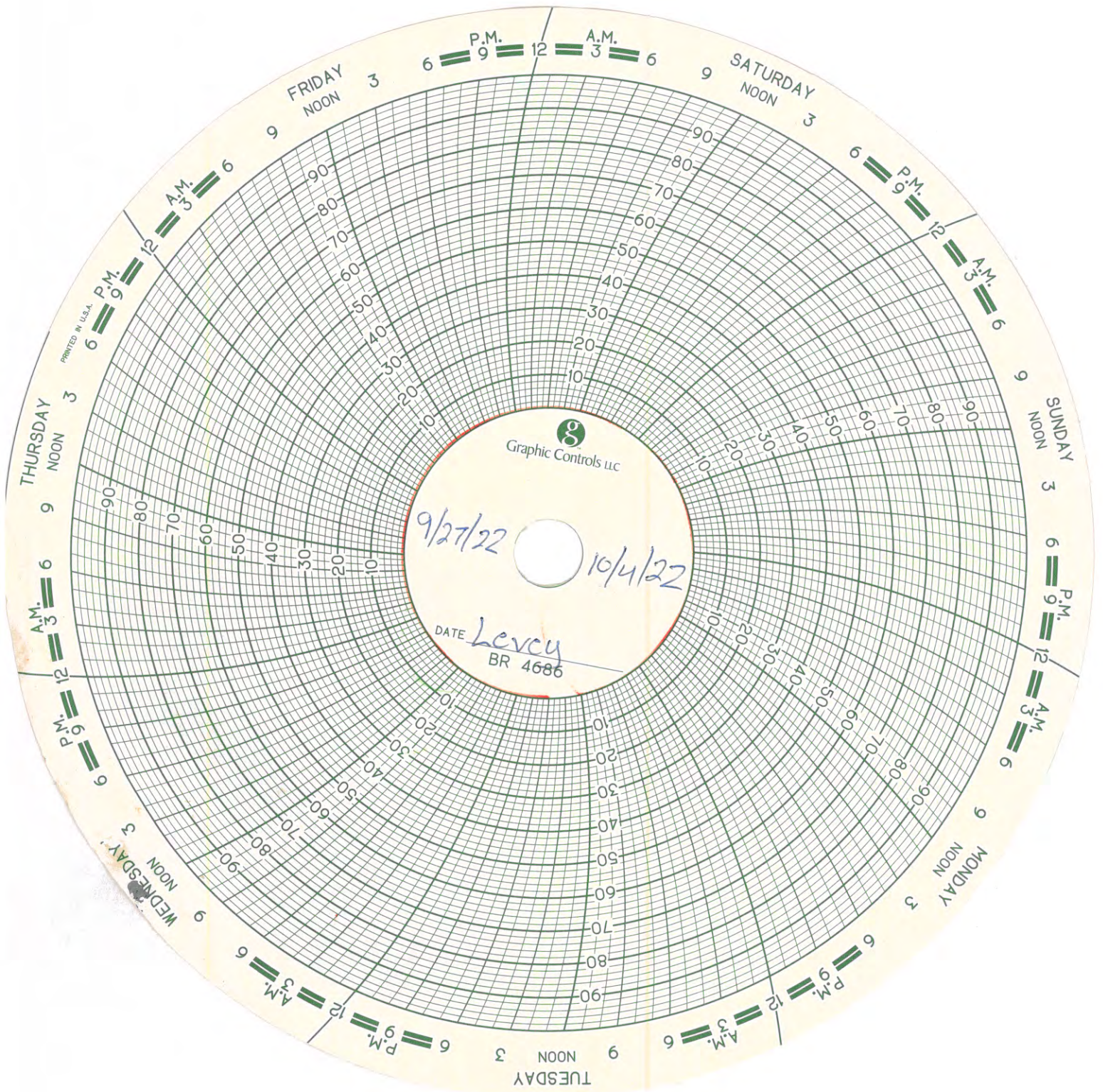


APPENDIX D

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 284048

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 284048
	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 - SEPTEMBER 2022 South Hobbs G/SA Unit Unit F, Order No. R-4934-F, Case No. 14981	3/21/2024