



GAS MITIGATION MONTHLY REPORT - DECEMBER 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**

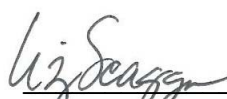
March 9, 2023

Prepared for:

**Occidental Permian LTD
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Principal



ENSOLUM

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GAS MITIGATION MONTHLY REPORT – DECEMBER 2022

South Hobbs G/SA Unit Operations
Order No. R-4934-F, Case No. 14981
Unit F, Section 5, Township 19S, Range 38E
Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico

1.0 INTRODUCTION

1.1 Site Description & Background

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

This Gas Mitigation Monthly Report - December 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, the *Gas Mitigation Monthly Report - August 2022*, dated December 6, 2022, the *Gas Mitigation Monthly Report - September 2022*, dated December 6, 2022, the *Gas Mitigation Monthly Report - October 2022*, dated January 20, 2022, and the *Gas Mitigation Monthly Report - November 2022*, dated January 20, 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.**

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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. 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 December 29, 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 December 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 0.0133 milligrams per liter (mg/L) to 0.0189 mg/L in monitoring well MW-2. Two Nitrite as N exceedances of 1.16 mg/L to 1.64 mg/L were observed in monitoring well MW-2. Three TDS analytical results of 1,060 mg/L, 1,130 mg/L and 1,170 mg/L were observed 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**.

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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.

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 12/29/2022, with no pressure observed in either monitoring well. The pressure reading charts available for December 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 December 1 - 29, 2022 was approximately 690,870 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 December 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 January 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 samples from December 5 and 19, 2022, were 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 December 5 and 19, 2022 vacuum recovery events, 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.

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 December 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 has been active since 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.

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 Midland (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 January 2023. 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 cyclohexane, heptane, n-hexane, 2-Butanone (MEK), 2-propanol, toluene, 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, cyclohexane, heptane, n-hexane, 2-propanol, 2-Butanone (MEK), toluene, and TPH concentrations significantly decrease throughout the duration of the event.

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, toluene, and TPH begin to accumulate inside the Levey water well casing. These results indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

Air samples are also collected on a bi-weekly basis approximately one 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 December 2022 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQSSs. 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 GQSSs, with the exception of the analytes, as discussed below.

Levey Well

Three TDS analytical results of 1,060 mg/L, 1,130 mg/L and 1,170 mg/L were observed during the December 2022 sampling. 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 0.0133 mg/L to 0.0189 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

Two Nitrite as N exceedances of 1.16 mg/L and 1.64 mg/L from monitoring well MW-2 were observed during the December 2022 sampling, which are above the WQCC GQS of 1.0 mg/L.

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

4.0 RECOMMENDATIONS

OXY has demonstrated over time that the SHU #290 and the surrounding oil and gas operations were and are not a contributor to the previous related pressure observed in the Levey Well. This has been demonstrated by over four 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 moving forward in 2023:

- **Continue to remove free gas accumulations from the underlying red bed and groundwater-bearing zone on a bi-weekly basis to acceptable levels of removal to achieve compliance expectations. The air sampling process performed at the Levey Well will continue to be utilized, as described in Section 2.1;**

- **Continue to monitor the Levey Well and monitoring wells MW-1 and MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved; and**
- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 moving forward 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 New Mexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.
- Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition ingroundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.
- Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methane concentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



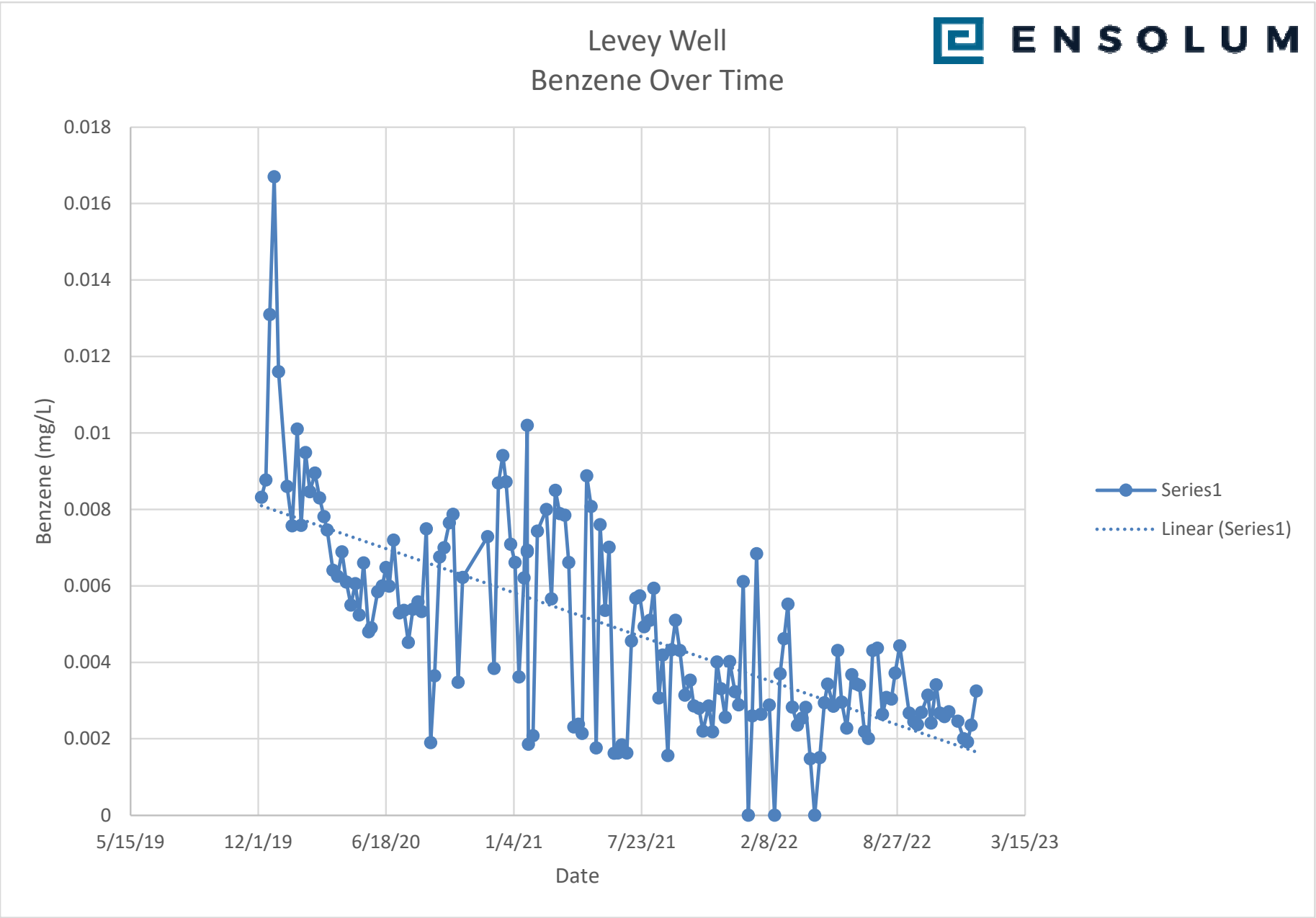
SITE MAP

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

PROJECT NUMBER: 03B1417001

FIGURE

1





APPENDIX B

Tables

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
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
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	<0.0010			

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
Levey Well	1/6/2021	0.00661	0.0494	0.0239	0.0141	0.0930	0.107	<0.0500	<0.00100	0.00233	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00140	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0122	<0.0100	0.00710	<0.00100	<0.00100	0.0334	0.0113
	1/12/2021	0.00362	0.0206	0.0168	0.00849	0.0547	0.0632	<0.0500	0.00159	0.00278	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00157	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00959	<0.00100	<0.00100	0.0540	0.0174
	1/20/2021	0.00621	0.0383	0.0245	0.0137	0.0884	0.102	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.00920	<0.00100	<0.00100	0.0470	0.0152
	1/25/2021	0.0102	0.0717	0.0337	0.0195	0.130	0.150	<0.0500	0.00167	0.00287	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00162	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0162	<0.0100	0.00914	<0.00100	<0.00100	0.0455	0.0149
	1/25/2021	0.00689	0.0353	0.0243	0.0113	0.0733	0.0846	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0127	<0.0100	0.0115	<0.00100	<0.00100	0.0687	0.0205
	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00101	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00756	<0.0100	0.0156	<0.00100	<0.00100	0.0945	0.0282
	2/10/2021	0.00743	0.0531	0.0280	0.0157	0.104	0.120	<0.0500	0.00140	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0142	<0.0100	0.00876	<0.00100	<0.00100	0.0448	0.0143
	2/24/2021	0.00800	0.0593	0.0287	0.0177	0.109	0.127	<0.0500	<0.00100	0.0024	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239
	5/19/2021	0.00760	0.0603	0.0296																									

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
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 Incliment 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					

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																						
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00151	0.000820 J
	12/18/2020	0.00257	<0.000500	0.000580 J	<0.000192	0.00145 J	0.00145	<0.00270	<0.000286	0.000350 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000320 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00234	0.00111
	12/23/2020	0.00159	<0.000500	0.000380 J	<0.000192	0.000970 J	0.000970 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	0.000230 J	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000720 J	0.000360 J
	12/30/2020	0.00194	<0.000500	0.000470 J	<0.000192	0.00148 J	0.00148	<0.00270	<0.000286	0.000230 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000240 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00154	0.000750 J
	1/6/2021	0.00209	<0.000500	0.000330 J	<0.000192	0.00122 J	0.00122	<0.00270	<0.000286	0.000310 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000190 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00219	0.00103
	1/12/2021	0.00211	0.000690 J	0.000540 J	<0.000192	0.00163 J	0.00163	<0.00270	<0.000286	0.000220 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000670 J
	1/20/2021	0.00222	<0.000500	0.000430 J	<0.000192	0.00137 J	0.00137	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00140	0.000720 J
	1/27/2021	0.00157	<0.000500	0.000400 J	<0.000192	0.00123 J	0.00123	0.00398 J	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00153	0.000830 J
	2/3/2021	0.00203	<0.000500	0.000430 J	<0.000192	0.00100 J	0.00100 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000180 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00105	0.000510 J
	2/10/2021	0.00196	<0.000500	0.000560 J	<0.000192	0.00143 J	0.00143	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000300 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000740 J
	2/24/2021	0.00158	<0.000500	0.000460 J	<0.000192	0.00110 J	0.0011	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000930 J	0.000490 J
	3/4/2021	0.00139	<0.000500	0.00102	<0.000192	0.00211 J	0.00211	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000440 J	<0.00200	0.000240 J	<0.000228	<0.000162	0.00131	0.000680 J
	3/10/2021	0.00143	<0.000500	0.000490 J	<0.000192	0.000900 J	0.000900 J	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000780 J	0.000370 J
	3/17/2021	0.00159	0.00112	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	<0.00500	<0.00100	<0.00100	<0.00500	0.000253 J	<0.0100	<0.00100	<0.00100	<0.00100	0.00152	<0.00100
	3/31/2021	0.00161	<0.000500	0.00																									

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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	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																						
	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	<0.00100	<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	<0.000								

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	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	<0.000214	<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	<0.000214	<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	<0.000286	<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 Incilment 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	&lt																



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	



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	1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27	
	1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57	
	1/20/2021	0.796	486	<0.500	0.138	<0.100	7.68	397	73.0	6.00	127	2,170	1,200	<4.00	5.70	6.24	
	1/27/2021	0.510	264	0.905	0.137	1.16	23.1	296	55.1	4.75	83.1	1,350	875	<4.00	1.70	6.38	
	2/3/2021	0.501	275	0.842	0.122	1.02	20.5	329	59.0	4.76	89.4	1,370	940	<4.00	0.00	6.37	
	2/10/2021	0.615	561	<0.500	0.147	0.308	24.9	416	77.9	7.03	156	1,980	1,170	<4.00	4.50	6.31	
	2/24/2021	0.695	576	<0.500	0.163	2.6	31.4	450	81.3	7.94	164	2,260	1,190	<4.00	2.50	6.22	
	3/4/2021	0.789	585	<0.500	0.121	0.215	54.1	425	77.8	6.41	151	2,090	1,050	<4.00	3.00	6.34	
	3/10/2021	0.756	540	<0.500	0.147	<0.100	45.5	417	76.3	5.54	139	1,940	1,160	<4.00	5.10	6.29	
	3/17/2021	0.813	519	1.21	0.169	<0.100	33.8	436	71.3	6.10	127	1,910	1,200	<4.00	4.70	5.97	
	3/25/2021	<10.0	529	<10.0	<2.00	1.99 J	20.2	435	78.0	7.14	136	2,320	1,250	<4.00	-10.80	6.6	
	3/31/2021	0.785	499	0.358 J	0.130	<0.0293	16.5	416	74.3	6.73	132	1,650	1,150	<4.00	-9.18	6.4	
	4/8/2021	<0.500	254	0.869	<0.100	0.121	23.3	271	46.7	5.00	74.5	1,120	785	<4.00	-9.60	6.5	
	4/15/2021	0.545	253	0.939	<0.100	<0.100	34.1	283	53.5	4.66	82.8	998	793	<4.00	-7.22	6.5	
	4/21/2021	0.460 J	253	0.729	0.125	<0.0293	9.23	278	52.4	4.83	81.4	1,210	869	<4.00	-10.1	6.4	
	4/28/2021	0.841	497	0.196 J	0.133	<0.0293	21.2	416	75.8	6.88	133	2,000	1,290	<4.00	-12.5	6.3	
	5/5/2021	0.780	475	0.362 J	0.151	<0.0293	13.6	428	80.1	7.43	123	2,120	1,230	<4.00	-9.6	6.2	
	5/13/2021	0.469 J	239	1.01	0.126	0.756 J	28.5	238	46.1	4.10	72.6	1,150	737	<4.00	-11.9	6.7	
	5/19/2021	0.725	566	0.324 J	<0.0391	2.93	21.0	494	91.6	8.14	164	2,160	1,260	<4.00	-5.71	6.3	
	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.5	
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3	
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5	
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7	
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7	
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9	
	7/1/2021	Levey Well Now Running Full Time															
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6	
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4	
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4	
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2	
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6	
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4	
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6	
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6	
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0	
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6	
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4	
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6	
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6	
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6	
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7	
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5	
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7	
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9	
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0	
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6	
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6	
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9	
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5	
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4	
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4	
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6	



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 CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.														
	2/8/2022	0.780	329	1.24	<0.0391	0.420	62.0	272	58.5	4.77	97.0	1,410	756	<4.00	-11.40	6.5
	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 Back on Running Full Time.														
	3/16/2022	0.380 J	229	0.464 J	0.208	<0.0293	42.2	258	55.9	4.48	85.6	1,190	673	<4.00	-4.29	6.4
	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
	10/4/2022	0.515	200	0.740	0.396	<0.0293	45.0	242	50.2	4.07	78.2	706	456	<4.00	4.21	6.6
	10/14/2022	0.495 J	212	0.655	0.464	<0.0293	49.1	208	42.7	3.22	68.5	1,250	719	<4.00	-16.5	6.3
	10/19/2022	1.08 J	206	0.612 J	0.359	<0.0293	46.0	250	51.3	4.05	81.9	1,340	676	<4.00	-5.64	6.6
	10/27/2022	0.412 J	201	0.631	0.0757 J	0.690	40.1	322	64.8	5.47	95.2	977	740	<4.00	3.53	6.4
	11/2/2022	0.473 J	216	0.509	0.165	<0.0293	46.1	247	49.2	4.26	76.4	1,230	681	<4.00	-6.86	6.3
	11/9/2022	0.461 J	218	0.683	0.0934 J	<0.0293	46.5	238	44.2	3.36	73.3	1,450	708	<4.00	-11.0	6.5
	11/16/2022	0.480 J	219	0.493 J	0.154	<0.0293	47.5	250	50.0	4.20	78.0	1,340	611	<4.00	-3.43	6.8
	11/30/2022	0.487 J	218	0.710	0.0811 J	<0.0293	44.9	208	43.2	3.12	70.9	1,270	618	<4.00	-11.7	6.7
	12/9/2022	0.335 J	206	0.685	0.153	0.108	40.5	244	49.3	3.61	62.9	1,170	626	<4.00	-5.72	6.5
	12/15/2022	0.311 J	211	0.628	0.137	<0.0293	40.5	254	48.3	4.05	76.3	956	440	<4.00	6.29	6.3
	12/21/2022	0.392 J	214	0.732	0.144	<0.0293	44.5	258	49.1	4.69	80.4	1,130	656	<4.00	-3.79	6.5
	12/29/2022	0.515	209	0.568	0.0543 J	<0.0293	43.5	242	45.9	3.93	74.9	1,060	670	<4.00	-7.08	6.6



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			



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 CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)	Cation-Anion Balance	
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	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 Inclement 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
	10/4/2022	NA	75.6	0.803	0.376	0.201	33.7			NA			272	<4.00	NA	7.2
	10/14/2022	NA	81.0	0.807	0.360	0.195	33.1			NA			266	<4.00	NA	7.3
	10/19/2022	NA	136	<0.100	<0.0391	<0.0293	19.2			NA			283	<4.00	NA	7.4
	10/27/2022	NA	80.4	0.750	0.0601 J	0.423	29.8			NA			277	<4.00	NA	7.4
	11/2/2022	NA	80.0	0.681	0.120	0.154	29.8			NA			252	<4.00	NA	7.2
	11/9/2022	NA	81.1	0.746	0.141	0.117	32.5			NA			294	<4.00	NA	7.4
	11/16/2022	NA	82.2	0.738	0.120	0.384	30.9			NA			282	<4.00	NA	7.3
	11/30/2022	NA	88.1	0.602	0.140	0.141	45.4			NA			300	<4.00	NA	7.3
	12/9/2022	NA	83.7	0.809	0.0610 J	0.247	44.2			NA			309	<4.00	NA	7.5
	12/15/2022	NA	82.1	0.786	<0.0391	0.121	44.3			NA			348	<4.00	NA	7.2
	12/21/2022	NA	84.4	0.676	0.0802 J	<0.0293	43.6			NA			377	<4.00	NA	7.3
	12/29/2022	NA	77.3	0.555	0.211	0.310	33.4			NA			409	<4.00	NA	7.1



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 Levey Well
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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																
	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															6.15	
	1/6/2021	NA	124															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		



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 CaCO ₃)	Alkalinity, Carbonate (as CaCO ₃)		
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	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 Inclement 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
	10/4/2022	NA	88.9	0.143 J	0.497	0.189	97.0			NA			1,320	<4.00	NA	6.2
	10/14/2022	NA	82.6	0.101 J	<0.0391	0.0760 J	84.6			NA			1,320	<4.00	NA	6.2
	10/19/2022	NA	51.2	<0.100	0.101	<0.0293	48.5			NA			1,290	<4.00	NA	6.5
	10/27/2022	NA	124	0.165 J	0.319	0.871	104			NA			1,340	<4.00	NA	6.3
	11/2/2022	NA	91.1	0.148 J	0.221	0.947	92.9			NA			1,330	<4.00	NA	6.2
	11/9/2022	NA	97.8	0.161 J	0.273	0.366	101			NA			1,430	<4.00	NA	6.4
	11/16/2022	NA	86.0	0.180 J	0.206	0.579	91.4			NA			1,300	<4.00	NA	6.6
	11/30/2022	NA	90.4	0.133 J	0.264	0.168	91.1			NA			1,300	<4.00	NA	6.4
	12/9/2022	NA	78.0	0.158 J	0.217	0.785	82.5			NA			1,290	<4.00	NA	6.4
	12/15/2022	NA	100	0.120 J	0.331	1.64	91.2			NA			1,140	<4.00	NA	6.2
	12/21/2022	NA	94.8	0.212 J	0.252	1.16	99.5			NA			1,270	<4.00	NA	6.3
	12/29/2022	NA	124	0.114 J	0.527	0.338	95.6			NA			1,250	<4.00	NA	6.5

NOTES:

SU - standard units

mg/l - milligrams per liter

NE - not established

NA - not analyzed

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

Concentrations highlighted in yellow exceed the NMAC Human Health Standards



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 ORO	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



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 ORO	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	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
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7



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 ORO	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



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 ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
	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
	10/4/2022	<0.495	1,670	1.11 J	<0.904	<0.872	1.11 J	17.6
	10/14/2022	<0.989	1,670	1.12 J	<0.915	<0.883	1.12 J	18.1
	10/19/2022	<0.495	814	1.46 J	<0.877	<0.846	1.46 J	18.3
	10/27/2022	<0.495	1,350	<0.988	<0.988	<0.954	<0.988	25.0
	11/2/2022	<0.495	1,680	1.82 J	<0.978	<0.944	1.82 J	25.0
	11/9/2022	<4.95	1,220	1.14 J	<0.978	<0.944	1.14 J	21.2
	11/16/2022	<0.495	653	2.20 J	<0.909	<0.877	2.20 J	18.0
	11/30/2022	<0.495	1,030	<0.959	<0.959	<0.926	<0.959	18.7
	12/9/2022	<0.495	1,030	1.38 J	<0.969	<0.935	1.38 J	17.3
	12/15/2022	<0.495	1,440	1.71 J	<0.988	<0.954	1.71 J	15.3
	12/21/2022	<0.495	1,280	1.11 J	<0.904	<0.872	1.11 J	16.3
	12/29/2022	<0.495	789	<0.923	<0.923	<0.891	<0.923	17.3

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	<0.694	<2.040	<1,470	<2,050	<328	<1,320	1,470	<0.851	<430	<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	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<66.0	205	<1.70	<27.2	<11.8	50.5	<2.18	3.46	520	550	<14.1	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	&			

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

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 Kerone	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																																				
		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	
	5/19/2022	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	
	5/23/2022	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	
		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																																				
		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	
	5/26/2022	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																																				
		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	
	6/9/2022	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																																				
		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	
		6/23/2022	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	2,210,000
		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	<409	<65.5	<264	13,600	<68.1	<109	<47.2	<151	<87.0	<85.7	149	453	<56.3	<139	<69.4	19,600,000
		7/7/2022	1340	15,500	<1,190	<311	<249	<165	<412	166,000	<324	<317	3,190	<347	<393	<450	<396	303,000	2,470,000	<393	<278	<2,040	12,200	<2,050	<328	<1,320	14,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	6,650,000
		7/13/2022	1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	<55.1	<64.8	<63.4	<189	<69.4	258	<89.9	<79.1	781,000	6,030,000	<78.7	<55.6	<409	28,100	<409	<65.5	<264	6,640	<68.1	<109	<47.2	<151	<87.0	<85.7	266	623	<56.3	<139	251	24,500,000
	7/18/2022	1135	22,000	<256	<311	<249	<165	<412	995,000	<324	<317	<943	<347	479	<450	<396	1,020,000	12,300,000	<393	<278	<2,040	19,200	<2,050	<328	<1,320	13,900	<340	<543	<236	<753	<435	<429	<393	667	<282	<694	<347	46,700,000	
		1224	Initiate Vacuum Recovery Event																																				
		1355	356	693	<15.5	14.8	<8.26	<20.6	4,370	<16.2	<15.9	<47.1	806	135	<22.5	<19.8	3,930	24,000	52.1	<13.9	<102	363	<102	<16.4	<66.0	131	<17.0	<27.2	<11.8	2,230	<21.8	<21.4	153	161	<14.1	494	170	258,000	
		1435	Vacuum Recovery Event Terminated																																				
		1625	342	<12.8	<15.5	15.1	<8.26	<20.6	2,520	<16.2	<15.9	<47.1	35.8	27.3	<22.5	<19.8	4,620	18,600	<19.7	<13.9	<102	229	<102	<16.4	<66.0	418	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	52.0	57.9	<14.1	<34.7	19.0		

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	8/18/2022	1231	<238	<51.1	<62.1	246	<33.0	<82.5	146,000	<64.8	<63.4	769	<69.4	<78.5	<89.9	<79.1	295,000	1,370,000	<78.7	63.9	<409	6,250	<409	<65.5	<264	15,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	148	<56.3	<139	95.4	7,520,000
	8/24/2022	1147	<297	<63.9	<77.6	<62.2	<41.3	<103	585,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	1,050,000	8,950,000	<98.3	<69.4	<511	13,900	<512	<81.9	<330	13,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	40,800,000
	8/31/2022	1247	132,000	<256	<311	<249	<165	<412	71,300	<324	<317	1,430	<347	<393	<450	<396	112,000	959,000	<393	<278	<2,040	3,660	5,530	<328	<1,320	16,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,480,000
	9/8/2022	1247	57,500	<1,280	<1,550	<1,240	<826	<2,060	403,000	<1,620	<1,590	5,640	<1,730	<1,960	<2,250	<1,980	646,000	6,030,000	<1,970	<1,390	<10,200	46,600	<10,200	<1,640	<6,600	30,200	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	49,700	<3,470	<1,730	19,800,000
	9/15/2022	1342	<149	<31.9	<38.8	47.0	<20.7	<51.5	29,100	<40.5	<39.6	1,330	<43.4	<49.1	<56.2	<49.5	59,700	353,000	<49.2	77.8	<256	1,350	<256	<40.9	<165	6,070	<42.5	80.1	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	830,000
	9/22/2022	1337	151,000	<2,560	<3,110	<2,490	<1,650	<4,120	554,000	<3,240	<3,170	288,000	3,590	<3,930	<4,500	<3,960	573,000	35,200,000	<3,930	<2,780	<20,400	57,200	<20,500	7,700	<13,200	6,930,000	4,110	33,800	<2,360	17,100	<4,350	<4,290	6,090	<3,930	<2,820	14,000	6,680	27,700,000
	9/26/2022	1046	39,900	<639	<776	<622	<413	<1,030	641,000	<810	<793	5,710	<867	<982	<1,120	<989	1,060,000	9,450,000	<983	<694	<5,110	20,100	<5,120	<819	<3,300	38,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	19,600,000
		1255	Initiate Vacuum Recovery Event																																			
		1403	337	<12.8	<15.5	<12.4	<8.26	<20.6	4,170	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	4,830	33,700	<19.7	<13.9	<102	292	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	189,000
		1512	116	<12.8	<15.5	<12.4	<8.26	<20.6	830	<16.2	<15.9	68.1	<17.3	<19.6	<22.5	<19.8	986	4,120	<19.7	<13.9	<102	104	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	39,100
		1512	Vacuum Recovery Event Terminated																																			
		1609	297	<12.8	<15.5	<12.4	<8.26	<20.6	2,100	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	2,380	12,700	<19.7	<13.9	<102	330	<102	<16.4	<66.0	109	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.7	<14.1	<34.7	<17.3	88,400
	9/28/2022	1215	14,200	<63.9	<77.6	136	<41.3	<103	118,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	241,000	1,110,000	<98.3	<69.4	<511	6,840	<512	<81.9	<330	6,660	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,790,000
	10/4/2022	1327	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	499,000	<8,100	<7,930	766,000	<8,670	<9,820	<11,200	<9,890	908,000	6,490,000	<9,830	<6,940	<51,100	66,900	<51,200	188,000	<33,000	3,440,000	<8,510	27,500	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	32,000,000
	10/10/2022	1226	15,900	<128	<155	128	<82.6	<206	413,000	<162	<159	2,070	<173	<196	<225	<198	658,000	7,760,000	<197	<139	<1,020	11,900	<1,020	<164	<660	9,510	<170	<272	<118	<377	<218	1,390	<196	206	<141	<347	<173	24,600,000
		1230	Initiate Vacuum Recovery Event																																			
		1326	71.1	1.52	<0.776	0.741	9.21	<1.03	1,400	<0.810	<0.793	14.8	<0.867	3.48	<1.12	1.36	3,850	14,900	<0.983	0.913	<5.11	109	<5.12	<0.819	<3.30	8.50	<0.851	<1.36	<0.590	3.08	<1.09	<1.07	5.79	8.05	<0.704	4.94	2.65	124,000
		1438	94.8	0.923	<0.776	0.672	2.58	<1.03	1,280	<0.810	<0.793	16.3	<0.867	2.65	<1.12	1.63	3,040	13,400	<0.983	0.934	<5.11	92.0	<5.12	<0.819	<3.30	120	<0.851	<1.36	<0.590	1.96	<1.09	<1.07	2.68	6.43	<0.704	<0.867	1.82	104,000
		1438	Vacuum Recovery Event Terminated																																			
		1538	<2.97	4.12	<0.776	15.5	16.6	<1.03	14,500	<0.810	<0.793	120	<0.867	23.3	<1.12	<0.989	34,700	122,000	<0.983	<0.694	<5.11	263	<5.12	<0.819	<3.30	49.2	<0.851	<1.36	<0.590	9.15	<1.09	<1.07	19.6	56.0	<0.704	12.7	17.6	698,000
	10/14/2022	1136	21,900	<128	<155	181	<82.6	<206	121,000	<162	<159	2,000	<173	<196	<225	<198	193,000	2,850,000	<197	<139	<1,020	8,880	<1,020	<164	<660	6,490	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	3,990,000
	10/19/2022	1350	10,600	<63.9	<77.6	<62.2	<41.3	<103	382,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	769,000	6,280,000	<98.3	<69.4	<511	9,170	<512	<81.9	<330	6,190	<85.1	760	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	22,600,000
	10/24/2022	1100	13,700	<63.9	<77.6	<62.2	<41.3	<103	88,200	<81.0	<79.3	6,200	211	339	<112	<98.9	174,000	1,030,000	<98.3	<69.4	<511	6,900	<512	<81.9	<330	12,300	<170	<136	<59.0	1,020	<109	<107	312	226	<70.4	806	273	<4,130,000
		1100	Initiate Vacuum Recovery Event																																			
		1208	<59.4	15.4	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	207	22.1	<19.6	<22.5	<19.8	22.2	62.8	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	96.8	<21.8	<21.4	<19.6	<19.6	<14.1	43.3	17.4	<16,500
		1308	97.4	<0.639	<0.776	4.45	2.07	<1.03	149	<0.810	<0.793	57.9	1.21	<0.982	<1.12	2.45	442	1,290	<0.983	<0.694	<5.11	61.3	<5.12	<0.819	<3.30	31.0	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	2.36	5.45	<0.704	3.86	1.53	9,670
		1308	Vacuum Recovery Event Terminated																																			
		1408	335	<0.639	<0.776	<622	<413	<1.03	2,270	<0.810	<0.793	<2.36	<0.867	<0.982	<1.12	<0.989	3,730	18,400	<0.983	<0.694	<5.11	234	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	2.62	5.60	<0.704	4.55	2.10	74,400
	10/27/2022	1337	7,680	<639	<776	<622	<413	<1,030	33,300	<810	<793	4,530	<867	<982	<1,120	<989	49,100	348,000	<983	<694	<5,110	33,690	<5,120	<819	<3,300	17,900	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	1,670,000
	11/2/2022	1339	<5,940	<1,280	<1,550	<1,240	<826	<2,060	64,400	<1,620	<1,590	6,340	<1,730	<1,960	<2,250	<1,980	130,000	702,000	<1,970	<1,390	<10,200	11,500	<10,200	<1,640	<6,600	30,000	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	<1,410	<3,470	<1,730	4,040,000
	11/7/2022	1115	<297	<66.9	<77.6	<62.2	<41.3	<103	209,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	299,000	825,000	<98.3	<69.4	<511	12,600	<512	<81.9	<330	24,400	<85.1	<136	<59.0	241	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	12,500,000
		1203	Initiate Vacuum Recovery Event																																			



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/17/2022 7:08:22 AM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-22562-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

Laboratory Job ID: 880-22562-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-22562-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: 880-22562-1
SDG: Hobbs NM

Job ID: 880-22562-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-22562-1

Receipt

The sample was received on 12/9/2022 2:56 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 3.6°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike(MS) recoveries for the following sample associated with analytical batch 860-81288 were outside control limits: (880-22563-H-1 MS). 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.

Metals

Method 200.7: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-81415 and analytical batch 860-81603 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 200.7: Due to the high concentration of Potassium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-81415 and analytical batch 860-81667 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.

General Chemistry

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

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Client Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-22562-1

Date Collected: 12/09/22 11:00

Matrix: Water

Date Received: 12/09/22 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00200		0.00100	0.000533 mg/L			12/12/22 15:35	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			12/12/22 15:35	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			12/12/22 15:35	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			12/12/22 15:35	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			12/12/22 15:35	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			12/12/22 15:35	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			12/12/22 15:35	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			12/12/22 15:35	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			12/12/22 15:35	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			12/12/22 15:35	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			12/12/22 15:35	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			12/12/22 15:35	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			12/12/22 15:35	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			12/12/22 15:35	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			12/12/22 15:35	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			12/12/22 15:35	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			12/12/22 15:35	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			12/12/22 15:35	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			12/12/22 15:35	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			12/12/22 15:35	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			12/12/22 15:35	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			12/12/22 15:35	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			12/12/22 15:35	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			12/12/22 15:35	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			12/12/22 15:35	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			12/12/22 15:35	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			12/12/22 15:35	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			12/12/22 15:35	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			12/12/22 15:35	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			12/12/22 15:35	1
Ethylbenzene	0.00774		0.00100	0.000411 mg/L			12/12/22 15:35	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			12/12/22 15:35	1
Isopropylbenzene	0.00375		0.00100	0.000613 mg/L			12/12/22 15:35	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			12/12/22 15:35	1
m,p-Xylenes	0.0311		0.0100	0.00124 mg/L			12/12/22 15:35	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			12/12/22 15:35	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			12/12/22 15:35	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			12/12/22 15:35	1
N-Propylbenzene	0.00165		0.00100	0.000498 mg/L			12/12/22 15:35	1
o-Xylene	0.00489		0.00100	0.000551 mg/L			12/12/22 15:35	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			12/12/22 15:35	1
sec-Butylbenzene	<0.000468 U		0.00100	0.000468 mg/L			12/12/22 15:35	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			12/12/22 15:35	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			12/12/22 15:35	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			12/12/22 15:35	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			12/12/22 15:35	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			12/12/22 15:35	1
Toluene	0.0162		0.00100	0.000475 mg/L			12/12/22 15:35	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			12/12/22 15:35	1

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Client Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-22562-1
Date Collected: 12/09/22 11:00 Matrix: Water
Date Received: 12/09/22 14:56

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			12/12/22 15:35	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/12/22 15:35	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/12/22 15:35	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/12/22 15:35	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/12/22 15:35	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/12/22 15:35	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/12/22 15:35	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/12/22 15:35	1
1,2,4-Trimethylbenzene	0.00714		0.00100	0.000417 mg/L			12/12/22 15:35	1
1,3,5-Trimethylbenzene	0.00229		0.00100	0.000456 mg/L			12/12/22 15:35	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/12/22 15:35	1
Xylenes, Total	0.0360		0.0100	0.00124 mg/L			12/12/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124				12/12/22 15:35	1
Dibromofluoromethane (Surr)	96		75 - 131				12/12/22 15:35	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144				12/12/22 15:35	1
Toluene-d8 (Surr)	102		80 - 117				12/12/22 15:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.335	J	0.500	0.0711 mg/L			12/10/22 17:43	1
Nitrate as N	0.153		0.100	0.0391 mg/L			12/10/22 17:43	1
Chloride	206		0.500	0.200 mg/L			12/10/22 17:43	1
Nitrite as N	0.108		0.100	0.0293 mg/L			12/10/22 17:43	1
Fluoride	0.685		0.500	0.100 mg/L			12/10/22 17:43	1
Sulfate	40.5		0.500	0.109 mg/L			12/10/22 17:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	244		10.0	5.76 mg/L		12/12/22 10:52	12/12/22 19:04	50
Magnesium	49.3		0.200	0.0428 mg/L		12/12/22 10:52	12/12/22 18:53	1
Potassium	3.61		0.500	0.0914 mg/L		12/12/22 10:52	12/13/22 13:31	1
Sodium	62.9		0.500	0.152 mg/L		12/12/22 10:52	12/13/22 13:31	1
SiO2	64.8		1.07	0.471 mg/L		12/12/22 10:52	12/12/22 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-5.72			%			12/13/22 16:39	1
Alkalinity (SM 2320B)	626		4.00	4.00 mg/L			12/13/22 15:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	626		4.00	4.00 mg/L			12/13/22 15:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/22 15:15	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/22 15:15	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/22 15:15	1
Total Dissolved Solids (SM 2540C)	1170		10.0	10.0 mg/L			12/14/22 22:00	1
pH (SM 4500 H+ B)	6.5	HF		SU			12/12/22 15:01	1
Temperature (SM 4500 H+ B)	17.2	HF		Degrees C			12/12/22 15:01	1

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Surrogate Summary

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

Job ID: 880-22562-1
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)
880-22562-1	Levey Well	97	96	106	102
LCS 860-81338/3	Lab Control Sample	96	98	104	96
LCSD 860-81338/4	Lab Control Sample Dup	97	100	103	97
MB 860-81338/9	Method Blank	99	100	108	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: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-81338/9

Matrix: Water

Analysis Batch: 81338

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			12/12/22 10:27	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/12/22 10:27	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/12/22 10:27	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/12/22 10:27	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/12/22 10:27	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/12/22 10:27	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/12/22 10:27	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/12/22 10:27	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/12/22 10:27	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/12/22 10:27	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/12/22 10:27	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/12/22 10:27	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/12/22 10:27	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/12/22 10:27	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/12/22 10:27	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/12/22 10:27	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/12/22 10:27	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 10:27	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/12/22 10:27	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/12/22 10:27	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 10:27	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 10:27	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 10:27	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/12/22 10:27	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/12/22 10:27	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/12/22 10:27	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/12/22 10:27	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/12/22 10:27	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/12/22 10:27	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/12/22 10:27	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/12/22 10:27	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/12/22 10:27	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/12/22 10:27	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/12/22 10:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/12/22 10:27	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/12/22 10:27	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/12/22 10:27	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 10:27	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/12/22 10:27	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/12/22 10:27	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 10:27	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/12/22 10:27	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/12/22 10:27	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/12/22 10:27	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 10:27	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/12/22 10:27	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/12/22 10:27	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/12/22 10:27	1

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QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-81338/9

Matrix: Water

Analysis Batch: 81338

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			12/12/22 10:27	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 10:27	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/12/22 10:27	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/12/22 10:27	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/12/22 10:27	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/12/22 10:27	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/12/22 10:27	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/12/22 10:27	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/12/22 10:27	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/12/22 10:27	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/12/22 10:27	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/12/22 10:27	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/12/22 10:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		12/12/22 10:27	1
Dibromofluoromethane (Surr)	100		75 - 131		12/12/22 10:27	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		12/12/22 10:27	1
Toluene-d8 (Surr)	100		80 - 117		12/12/22 10:27	1

Lab Sample ID: LCS 860-81338/3

Matrix: Water

Analysis Batch: 81338

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	0.04787		mg/L		96	75 - 125
Bromobenzene	0.0500	0.04820		mg/L		96	75 - 125
Bromochloromethane	0.0500	0.04907		mg/L		98	60 - 140
Bromodichloromethane	0.0500	0.05175		mg/L		104	75 - 125
Bromoform	0.0500	0.05354		mg/L		107	70 - 130
Bromomethane	0.0500	0.04794		mg/L		96	60 - 140
2-Butanone	0.250	0.2287		mg/L		91	60 - 140
Carbon tetrachloride	0.0500	0.05444		mg/L		109	70 - 130
Chlorobenzene	0.0500	0.04855		mg/L		97	65 - 135
Chloroethane	0.0500	0.04583		mg/L		92	60 - 140
Chloroform	0.0500	0.04962		mg/L		99	70 - 121
Chloromethane	0.0500	0.04070		mg/L		81	60 - 140
2-Chlorotoluene	0.0500	0.04829		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.04874		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04676		mg/L		94	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05050		mg/L		101	74 - 125
Dibromochloromethane	0.0500	0.05199		mg/L		104	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05432		mg/L		109	59 - 125
1,2-Dibromoethane	0.0500	0.04862		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.04952		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.05006		mg/L		100	75 - 125
1,4-Dichlorobenzene	0.0500	0.04791		mg/L		96	75 - 125
Dichlorodifluoromethane	0.0500	0.04189		mg/L		84	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-81338/3

Matrix: Water

Analysis Batch: 81338

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	0.04874		mg/L		97	70 - 130
1,2-Dichloroethane	0.0500	0.05283		mg/L		106	72 - 130
1,1-Dichloroethene	0.0500	0.04882		mg/L		98	50 - 150
1,2-Dichloropropane	0.0500	0.04750		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04714		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05251		mg/L		105	75 - 125
1,1-Dichloropropene	0.0500	0.04970		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04992		mg/L		100	75 - 125
Hexachlorobutadiene	0.0500	0.05156		mg/L		103	75 - 125
Isopropylbenzene	0.0500	0.05232		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.04749		mg/L		95	75 - 125
m,p-Xylenes	0.0500	0.05083		mg/L		102	75 - 125
MTBE	0.0500	0.05091		mg/L		102	65 - 135
Naphthalene	0.0500	0.05568		mg/L		111	70 - 130
n-Butylbenzene	0.0500	0.04985		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04911		mg/L		98	75 - 125
o-Xylene	0.0500	0.05061		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05171		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.04979		mg/L		100	75 - 125
Styrene	0.0500	0.05135		mg/L		103	75 - 125
tert-Butylbenzene	0.0500	0.05096		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05163		mg/L		103	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04424		mg/L		88	74 - 125
Tetrachloroethene	0.0500	0.05131		mg/L		103	71 - 125
Toluene	0.0500	0.04797		mg/L		96	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04947		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04976		mg/L		100	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05644		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05239		mg/L		105	75 - 135
1,1,1-Trichloroethane	0.0500	0.05196		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.04757		mg/L		95	70 - 130
Trichloroethene	0.0500	0.05067		mg/L		101	75 - 135
Trichlorofluoromethane	0.0500	0.05625		mg/L		112	60 - 140
1,2,3-Trichloropropane	0.0500	0.04513		mg/L		90	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05158		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05006		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04490		mg/L		90	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
Toluene-d8 (Surr)	96		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-81338/4

Matrix: Water

Analysis Batch: 81338

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	0.04850		mg/L		97	75 - 125	1	25
Bromobenzene	0.0500	0.04981		mg/L		100	75 - 125	3	25
Bromochloromethane	0.0500	0.04839		mg/L		97	60 - 140	1	25
Bromodichloromethane	0.0500	0.05069		mg/L		101	75 - 125	2	25
Bromoform	0.0500	0.05469		mg/L		109	70 - 130	2	25
Bromomethane	0.0500	0.04634		mg/L		93	60 - 140	3	25
2-Butanone	0.250	0.2306		mg/L		92	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05546		mg/L		111	70 - 130	2	25
Chlorobenzene	0.0500	0.05038		mg/L		101	65 - 135	4	25
Chloroethane	0.0500	0.04718		mg/L		94	60 - 140	3	25
Chloroform	0.0500	0.04974		mg/L		99	70 - 121	0	25
Chloromethane	0.0500	0.04098		mg/L		82	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05074		mg/L		101	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05068		mg/L		101	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04751		mg/L		95	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04940		mg/L		99	74 - 125	2	25
Dibromochloromethane	0.0500	0.05267		mg/L		105	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05712		mg/L		114	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05070		mg/L		101	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05095		mg/L		102	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05017		mg/L		100	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.04996		mg/L		100	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04428		mg/L		89	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04891		mg/L		98	70 - 130	0	25
1,2-Dichloroethane	0.0500	0.05085		mg/L		102	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.05119		mg/L		102	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04674		mg/L		93	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04744		mg/L		95	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05359		mg/L		107	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05032		mg/L		101	75 - 125	1	25
Ethylbenzene	0.0500	0.05191		mg/L		104	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05544		mg/L		111	75 - 125	7	25
Isopropylbenzene	0.0500	0.05514		mg/L		110	75 - 125	5	25
Methylene Chloride	0.0500	0.04693		mg/L		94	75 - 125	1	25
m,p-Xylenes	0.0500	0.05292		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.05037		mg/L		101	65 - 135	1	25
Naphthalene	0.0500	0.05877		mg/L		118	70 - 130	5	25
n-Butylbenzene	0.0500	0.05384		mg/L		108	75 - 125	8	25
N-Propylbenzene	0.0500	0.05223		mg/L		104	75 - 125	6	25
o-Xylene	0.0500	0.05267		mg/L		105	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05534		mg/L		111	75 - 125	7	25
sec-Butylbenzene	0.0500	0.05431		mg/L		109	75 - 125	9	25
Styrene	0.0500	0.05235		mg/L		105	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05455		mg/L		109	75 - 125	7	25
1,1,1,2-Tetrachloroethane	0.0500	0.05228		mg/L		105	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04599		mg/L		92	74 - 125	4	25
Tetrachloroethene	0.0500	0.05534		mg/L		111	71 - 125	8	25
Toluene	0.0500	0.04957		mg/L		99	70 - 130	3	25

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QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-81338/4

Matrix: Water

Analysis Batch: 81338

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	0.05189		mg/L		104	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.05089		mg/L		102	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.06069		mg/L		121	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05502		mg/L		110	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.05305		mg/L		106	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04779		mg/L		96	70 - 130	0	25
Trichloroethene	0.0500	0.05296		mg/L		106	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.05818		mg/L		116	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04511		mg/L		90	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05361		mg/L		107	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05318		mg/L		106	60 - 140	6	25
Vinyl chloride	0.0500	0.04759		mg/L		95	60 - 140	6	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-81288/3

Matrix: Water

Analysis Batch: 81288

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			12/10/22 15:33	1
Chloride	<0.200	U	0.500	0.200 mg/L			12/10/22 15:33	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/10/22 15:33	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/10/22 15:33	1

Lab Sample ID: LCS 860-81288/4

Matrix: Water

Analysis Batch: 81288

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	10.30		mg/L		103	90 - 110
Chloride	10.0	9.752		mg/L		98	90 - 110
Fluoride	10.0	10.39		mg/L		104	90 - 110
Sulfate	10.0	9.598		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-81288/5

Matrix: Water

Analysis Batch: 81288

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	10.36		mg/L		104	90 - 110	1	20
Chloride	10.0	9.839		mg/L		98	90 - 110	1	20
Fluoride	10.0	10.46		mg/L		105	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-81288/5

Matrix: Water

Analysis Batch: 81288

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	9.672		mg/L		97	90 - 110	1	20

Lab Sample ID: LLCS 860-81288/86

Matrix: Water

Analysis Batch: 81288

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	0.4856	J	mg/L		97	50 - 150		
Chloride	0.500	0.5327		mg/L		107	50 - 150		
Fluoride	0.500	0.5326		mg/L		107	50 - 150		
Sulfate	0.500	0.2619	J	mg/L		52	50 - 150		

Lab Sample ID: MB 860-81289/3

Matrix: Water

Analysis Batch: 81289

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			12/10/22 15:33	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/10/22 15:33	1

Lab Sample ID: LCS 860-81289/4

Matrix: Water

Analysis Batch: 81289

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	9.788		mg/L		98	80 - 120		
Nitrite as N	5.00	4.716		mg/L		94	80 - 120		

Lab Sample ID: LCSD 860-81289/5

Matrix: Water

Analysis Batch: 81289

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	9.833		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.823		mg/L		96	80 - 120	2	20

Lab Sample ID: LLCS 860-81289/85

Matrix: Water

Analysis Batch: 81289

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	0.1054		mg/L		105	50 - 150		
Nitrite as N	0.100	0.1111		mg/L		111	50 - 150		

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QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-81415/1-A

Matrix: Water

Analysis Batch: 81603

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		12/12/22 10:52	12/12/22 18:03	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		12/12/22 10:52	12/12/22 18:03	1
SiO2	<0.471	U	1.07	0.471 mg/L		12/12/22 10:52	12/12/22 18:03	1

Lab Sample ID: MB 860-81415/1-A

Matrix: Water

Analysis Batch: 81667

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.0914	U	0.500	0.0914 mg/L		12/12/22 10:52	12/13/22 12:53	1
Sodium	<0.152	U	0.500	0.152 mg/L		12/12/22 10:52	12/13/22 12:53	1

Lab Sample ID: LCS 860-81415/2-A

Matrix: Water

Analysis Batch: 81603

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.20		mg/L		93	85 - 115
Magnesium	25.0	23.40		mg/L		94	85 - 115
SiO2	21.4	20.35		mg/L		95	85 - 115

Lab Sample ID: LCS 860-81415/2-A

Matrix: Water

Analysis Batch: 81667

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	10.0	9.950		mg/L		100	85 - 115
Sodium	25.0	25.00		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-81415/3-A

Matrix: Water

Analysis Batch: 81603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	23.20		mg/L		93	85 - 115	0	20
Magnesium	25.0	23.50		mg/L		94	85 - 115	0	20
SiO2	21.4	20.35		mg/L		95	85 - 115	0	20

Lab Sample ID: LCSD 860-81415/3-A

Matrix: Water

Analysis Batch: 81667

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	10.0	9.990		mg/L		100	85 - 115	0	20
Sodium	25.0	25.10		mg/L		100	85 - 115	0	20

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QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-81415/4-A

Matrix: Water

Analysis Batch: 81603

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2130		mg/L		107	50 - 150
Magnesium	0.200	0.2020		mg/L		101	50 - 150
SiO2	1.07	1.186		mg/L		111	50 - 150

Lab Sample ID: LLCS 860-81415/4-A

Matrix: Water

Analysis Batch: 81667

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 81415

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	0.500	0.5730		mg/L		115	50 - 150
Sodium	0.500	0.3540	J	mg/L		71	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-81698/3

Matrix: Water

Analysis Batch: 81698

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			12/13/22 11:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			12/13/22 11:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			12/13/22 11:37	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			12/13/22 11:37	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			12/13/22 11:37	1

Lab Sample ID: LCS 860-81698/4

Matrix: Water

Analysis Batch: 81698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	254.4		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-81698/5

Matrix: Water

Analysis Batch: 81698

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	254.1		mg/L		102	85 - 115	0	20

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

Lab Sample ID: MB 860-81552/1

Matrix: Water

Analysis Batch: 81552

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			12/12/22 23:00	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-22562-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-81552/2

Matrix: Water

Analysis Batch: 81552

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	999.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-81552/3

Matrix: Water

Analysis Batch: 81552

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	1008		mg/L		101	80 - 120	1	10

Lab Sample ID: LLCS 860-81552/4

Matrix: Water

Analysis Batch: 81552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		90	50 - 150

Lab Sample ID: MB 860-81947/1

Matrix: Water

Analysis Batch: 81947

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			12/14/22 22:00	1

Lab Sample ID: LCS 860-81947/2

Matrix: Water

Analysis Batch: 81947

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	803.0		mg/L		80	80 - 120

Lab Sample ID: LCSD 860-81947/3

Matrix: Water

Analysis Batch: 81947

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	799.0		mg/L		80	80 - 120	0	10

Lab Sample ID: LLCS 860-81947/4

Matrix: Water

Analysis Batch: 81947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		70	50 - 150

Eurofins Midland

QC Association Summary

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

Job ID: 880-22562-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 81338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	8260C	
MB 860-81338/9	Method Blank	Total/NA	Water	8260C	
LCS 860-81338/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-81338/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 81288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	300.0	
MB 860-81288/3	Method Blank	Total/NA	Water	300.0	
LCS 860-81288/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-81288/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-81288/86	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 81289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	300.0	
MB 860-81289/3	Method Blank	Total/NA	Water	300.0	
LCS 860-81289/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-81289/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-81289/85	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 81415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-81415/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-81415/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-81415/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-81415/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 81603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	81415
880-22562-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	81415
MB 860-81415/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	81415
LCS 860-81415/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	81415
LCSD 860-81415/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	81415
LLCS 860-81415/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	81415

Analysis Batch: 81667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	81415
MB 860-81415/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	81415
LCS 860-81415/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	81415
LCSD 860-81415/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	81415
LLCS 860-81415/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	81415

Eurofins Midland

QC Association Summary

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

Job ID: 880-22562-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 81495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 81552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-81552/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-81552/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-81552/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-81552/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 81698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-81698/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-81698/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-81698/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 81699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 81947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22562-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-81947/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-81947/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-81947/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-81947/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

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

Job ID: 880-22562-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-22562-1

Date Collected: 12/09/22 11:00

Matrix: Water

Date Received: 12/09/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	81338	TTD	EET HOU	12/12/22 15:35
Total/NA	Analysis	300.0		1	81288	WP	EET HOU	12/10/22 17:43
Total/NA	Analysis	300.0		1	81289	WP	EET HOU	12/10/22 17:43
Total Recoverable	Prep	200.7			81415	AGR	EET HOU	12/12/22 10:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	81603	JDM	EET HOU	12/12/22 18:53
Total Recoverable	Prep	200.7			81415	AGR	EET HOU	12/12/22 10:52
Total Recoverable	Analysis	200.7 Rev 4.4		50	81603	JDM	EET HOU	12/12/22 19:04
Total Recoverable	Prep	200.7			81415	AGR	EET HOU	12/12/22 10:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	81667	JDM	EET HOU	12/13/22 13:31
Total/NA	Analysis	SM 1030E		1	81699	SC	EET HOU	12/13/22 16:39
Total/NA	Analysis	SM 2320B		1	81698	TL	EET HOU	12/13/22 15:15
Total/NA	Analysis	SM 2540C		1	81947	YGG	EET HOU	12/14/22 22:00
Total/NA	Analysis	SM 4500 H+ B		1	81495	TL	EET HOU	12/12/22 15:01

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

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Accreditation/Certification Summary

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

Job ID: 880-22562-1
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: 880-22562-1
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: 880-22562-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22562-1	Levey Well	Water	12/09/22 11:00	12/09/22 14:56

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Chain of Custody

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

Work Order No: 22562

www.xenco.com Page 1 of 1

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

Project Name:	Levey Well	Hobbs NM	Turn Around
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):	29.2	Thermometer ID	Free				
Received Intact:	Yes	No					
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:	-30		
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Levey Well	GW	12-5-22	1100	
880-22562 Chain of Custody				

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Cu	Co	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	Ca	Cr	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
		12/9/22			
		12/5/22			

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

 eurofins

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22562-1

SDG Number: Hobbs NM

Login Number: 22562

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: 880-22562-1

SDG Number: Hobbs NM

Login Number: 22562

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/10/22 10:22 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/14/2022 6:12:47 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-22563-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/14/2022 6:12:47 PM

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

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

Laboratory Job ID: 880-22563-1

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Definitions/Glossary

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

Job ID: 880-22563-1

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-22563-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
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Case Narrative

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

Job ID: 880-22563-1

Job ID: 880-22563-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-22563-1

Receipt

The samples were received on 12/9/2022 2:56 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 2.6°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike(MS) recoveries for the following sample associated with analytical batch 860-81288 were outside control limits: (880-22563-H-1 MS). 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.

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: 880-22563-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-22563-1

Date Collected: 12/09/22 11:35

Matrix: Water

Date Received: 12/09/22 14:56

Method: SW846 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			12/12/22 14:54	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/12/22 14:54	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/12/22 14:54	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/12/22 14:54	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/12/22 14:54	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/12/22 14:54	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/12/22 14:54	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/12/22 14:54	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/12/22 14:54	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/12/22 14:54	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/12/22 14:54	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/12/22 14:54	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/12/22 14:54	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/12/22 14:54	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/12/22 14:54	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/12/22 14:54	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/12/22 14:54	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 14:54	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/12/22 14:54	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/12/22 14:54	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 14:54	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 14:54	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 14:54	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/12/22 14:54	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/12/22 14:54	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/12/22 14:54	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/12/22 14:54	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/12/22 14:54	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/12/22 14:54	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/12/22 14:54	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/12/22 14:54	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/12/22 14:54	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/12/22 14:54	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/12/22 14:54	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/12/22 14:54	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/12/22 14:54	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/12/22 14:54	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 14:54	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/12/22 14:54	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/12/22 14:54	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 14:54	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/12/22 14:54	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/12/22 14:54	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/12/22 14:54	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 14:54	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/12/22 14:54	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/12/22 14:54	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/12/22 14:54	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/12/22 14:54	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-22563-1

Date Collected: 12/09/22 11:35

Matrix: Water

Date Received: 12/09/22 14:56

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			12/12/22 14:54	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/12/22 14:54	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/12/22 14:54	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/12/22 14:54	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/12/22 14:54	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/12/22 14:54	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/12/22 14:54	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/12/22 14:54	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/12/22 14:54	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/12/22 14:54	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/12/22 14:54	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/12/22 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		12/12/22 14:54	1
Dibromofluoromethane (Surr)	100		75 - 131		12/12/22 14:54	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		12/12/22 14:54	1
Toluene-d8 (Surr)	100		80 - 117		12/12/22 14:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.00	U	5.08	1.00 mg/L			12/14/22 19:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.00	U	5.08	1.00 mg/L		12/12/22 15:51	12/13/22 13:17	1
Diesel Range Organics (Over C10-C28)	<1.00	U	5.08	1.00 mg/L		12/12/22 15:51	12/13/22 13:17	1
Oil Range Organics (Over C28-C36)	<0.970	U	5.08	0.970 mg/L		12/12/22 15:51	12/13/22 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	12/12/22 15:51	12/13/22 13:17	1
o-Terphenyl	86		70 - 135	12/12/22 15:51	12/13/22 13:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		0.500	0.200 mg/L			12/10/22 16:42	1
Nitrate as N	0.0610	J	0.100	0.0391 mg/L			12/10/22 16:42	1
Fluoride	0.809		0.500	0.100 mg/L			12/10/22 16:42	1
Nitrite as N	0.247		0.100	0.0293 mg/L			12/10/22 16:42	1
Sulfate	44.2		0.500	0.109 mg/L			12/10/22 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	309		4.00	4.00 mg/L			12/13/22 15:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	309		4.00	4.00 mg/L			12/13/22 15:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/13/22 15:23	1
Carbon dioxide (SM 4500 CO2 D)	291			mg/L			12/13/22 16:48	1

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Client Sample Results

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

Job ID: 880-22563-1

Client Sample ID: MW-1

Lab Sample ID: 880-22563-1

Date Collected: 12/09/22 11:35

Matrix: Water

Date Received: 12/09/22 14:56

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	19.5			mg/L			12/13/22 16:48	1
pH (SM 4500 H+ B)	7.5	HF		SU			12/12/22 14:41	1
Temperature (SM 4500 H+ B)	17.1	HF		Degrees C			12/12/22 14:41	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			12/12/22 18:39	1

Client Sample ID: MW-2

Lab Sample ID: 880-22563-2

Date Collected: 12/09/22 12:20

Matrix: Water

Date Received: 12/09/22 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0133		0.00100	0.000533 mg/L			12/12/22 15:14	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/12/22 15:14	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/12/22 15:14	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/12/22 15:14	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/12/22 15:14	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/12/22 15:14	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/12/22 15:14	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/12/22 15:14	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/12/22 15:14	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/12/22 15:14	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/12/22 15:14	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/12/22 15:14	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/12/22 15:14	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/12/22 15:14	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/12/22 15:14	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/12/22 15:14	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/12/22 15:14	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 15:14	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/12/22 15:14	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/12/22 15:14	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 15:14	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 15:14	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 15:14	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/12/22 15:14	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/12/22 15:14	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/12/22 15:14	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/12/22 15:14	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/12/22 15:14	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/12/22 15:14	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/12/22 15:14	1
Ethylbenzene	0.0135		0.00100	0.000411 mg/L			12/12/22 15:14	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/12/22 15:14	1
Isopropylbenzene	0.00830		0.00100	0.000613 mg/L			12/12/22 15:14	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/12/22 15:14	1
m,p-Xylenes	0.0721		0.0100	0.00124 mg/L			12/12/22 15:14	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/12/22 15:14	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/12/22 15:14	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 15:14	1

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Client Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-22563-2

Date Collected: 12/09/22 12:20

Matrix: Water

Date Received: 12/09/22 14:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00232		0.00100	0.000498 mg/L			12/12/22 15:14	1
o-Xylene	0.00773		0.00100	0.000551 mg/L			12/12/22 15:14	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 15:14	1
sec-Butylbenzene	0.000945	J	0.00100	0.000468 mg/L			12/12/22 15:14	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/12/22 15:14	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/12/22 15:14	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 15:14	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/12/22 15:14	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/12/22 15:14	1
Toluene	0.00193		0.00100	0.000475 mg/L			12/12/22 15:14	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/12/22 15:14	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 15:14	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/12/22 15:14	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/12/22 15:14	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/12/22 15:14	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/12/22 15:14	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/12/22 15:14	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/12/22 15:14	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/12/22 15:14	1
1,2,4-Trimethylbenzene	0.0238		0.00100	0.000417 mg/L			12/12/22 15:14	1
1,3,5-Trimethylbenzene	0.00582		0.00100	0.000456 mg/L			12/12/22 15:14	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/12/22 15:14	1
Xylenes, Total	0.0798		0.0100	0.00124 mg/L			12/12/22 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		12/12/22 15:14	1
Dibromofluoromethane (Surr)	96		75 - 131		12/12/22 15:14	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		12/12/22 15:14	1
Toluene-d8 (Surr)	100		80 - 117		12/12/22 15:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.38	J	4.90	0.969 mg/L			12/14/22 19:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.38	J	4.90	0.969	mg/L		12/12/22 15:51	12/13/22 13:37	1
Diesel Range Organics (Over C10-C28)	<0.969	U	4.90	0.969	mg/L		12/12/22 15:51	12/13/22 13:37	1
Oil Range Organics (Over C28-C36)	<0.935	U	4.90	0.935	mg/L		12/12/22 15:51	12/13/22 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135				12/12/22 15:51	12/13/22 13:37	1
o-Terphenyl	84		70 - 135				12/12/22 15:51	12/13/22 13:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		0.500	0.200 mg/L			12/10/22 17:19	1
Nitrate as N	0.217		0.100	0.0391 mg/L			12/10/22 17:19	1
Fluoride	0.158	J	0.500	0.100 mg/L			12/10/22 17:19	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22563-1

Client Sample ID: MW-2
Date Collected: 12/09/22 12:20
Date Received: 12/09/22 14:56

Lab Sample ID: 880-22563-2
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.785		0.100	0.0293	mg/L			12/10/22 17:19	1
Sulfate	82.5		0.500	0.109	mg/L			12/10/22 17:19	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1290		4.00	4.00	mg/L			12/13/22 15:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1290		4.00	4.00	mg/L			12/13/22 15:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/13/22 15:40	1
Carbon dioxide (SM 4500 CO2 D)	2160				mg/L			12/13/22 16:50	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1030				mg/L			12/13/22 16:50	1
pH (SM 4500 H+ B)	6.4	HF			SU			12/12/22 14:44	1
Temperature (SM 4500 H+ B)	17.3	HF			Degrees C			12/12/22 14:44	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			12/12/22 18:39	1

Surrogate Summary

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

Job ID: 880-22563-1

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)
880-22563-1	MW-1	96	100	111	100
880-22563-2	MW-2	96	96	106	100
LCS 860-81338/3	Lab Control Sample	96	98	104	96
LCSD 860-81338/4	Lab Control Sample Dup	97	100	103	97
MB 860-81338/9	Method Blank	99	100	108	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)
880-22563-1	MW-1	90	86
880-22563-2	MW-2	86	84
LCS 860-81494/2-A	Lab Control Sample	81	84
LCSD 860-81494/3-A	Lab Control Sample Dup	90	81
MB 860-81494/1-A	Method Blank	86	84
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-81338/9

Matrix: Water

Analysis Batch: 81338

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			12/12/22 10:27	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/12/22 10:27	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/12/22 10:27	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/12/22 10:27	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/12/22 10:27	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/12/22 10:27	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/12/22 10:27	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/12/22 10:27	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/12/22 10:27	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/12/22 10:27	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/12/22 10:27	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/12/22 10:27	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/12/22 10:27	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/12/22 10:27	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/12/22 10:27	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/12/22 10:27	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/12/22 10:27	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 10:27	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/12/22 10:27	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/12/22 10:27	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 10:27	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/12/22 10:27	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 10:27	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/12/22 10:27	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/12/22 10:27	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/12/22 10:27	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/12/22 10:27	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/12/22 10:27	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/12/22 10:27	1
1,1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/12/22 10:27	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/12/22 10:27	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/12/22 10:27	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/12/22 10:27	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/12/22 10:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/12/22 10:27	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/12/22 10:27	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/12/22 10:27	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 10:27	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/12/22 10:27	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/12/22 10:27	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/12/22 10:27	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/12/22 10:27	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/12/22 10:27	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/12/22 10:27	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/12/22 10:27	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/12/22 10:27	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/12/22 10:27	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/12/22 10:27	1

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QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-81338/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 81338

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			12/12/22 10:27	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/12/22 10:27	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/12/22 10:27	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/12/22 10:27	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/12/22 10:27	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/12/22 10:27	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/12/22 10:27	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/12/22 10:27	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/12/22 10:27	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/12/22 10:27	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/12/22 10:27	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/12/22 10:27	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/12/22 10:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		12/12/22 10:27	1
Dibromofluoromethane (Surr)	100		75 - 131		12/12/22 10:27	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		12/12/22 10:27	1
Toluene-d8 (Surr)	100		80 - 117		12/12/22 10:27	1

Lab Sample ID: LCS 860-81338/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 81338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04787		mg/L		96	75 - 125
Bromobenzene	0.0500	0.04820		mg/L		96	75 - 125
Bromochloromethane	0.0500	0.04907		mg/L		98	60 - 140
Bromodichloromethane	0.0500	0.05175		mg/L		104	75 - 125
Bromoform	0.0500	0.05354		mg/L		107	70 - 130
Bromomethane	0.0500	0.04794		mg/L		96	60 - 140
2-Butanone	0.250	0.2287		mg/L		91	60 - 140
Carbon tetrachloride	0.0500	0.05444		mg/L		109	70 - 130
Chlorobenzene	0.0500	0.04855		mg/L		97	65 - 135
Chloroethane	0.0500	0.04583		mg/L		92	60 - 140
Chloroform	0.0500	0.04962		mg/L		99	70 - 121
Chloromethane	0.0500	0.04070		mg/L		81	60 - 140
2-Chlorotoluene	0.0500	0.04829		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.04874		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04676		mg/L		94	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05050		mg/L		101	74 - 125
Dibromochloromethane	0.0500	0.05199		mg/L		104	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05432		mg/L		109	59 - 125
1,2-Dibromoethane	0.0500	0.04862		mg/L		97	73 - 125
1,2-Dichlorobenzene	0.0500	0.04952		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.05006		mg/L		100	75 - 125
1,4-Dichlorobenzene	0.0500	0.04791		mg/L		96	75 - 125
Dichlorodifluoromethane	0.0500	0.04189		mg/L		84	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-81338/3

Matrix: Water

Analysis Batch: 81338

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	0.04874		mg/L		97	70 - 130
1,2-Dichloroethane	0.0500	0.05283		mg/L		106	72 - 130
1,1-Dichloroethene	0.0500	0.04882		mg/L		98	50 - 150
1,2-Dichloropropane	0.0500	0.04750		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04714		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05251		mg/L		105	75 - 125
1,1-Dichloropropene	0.0500	0.04970		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04992		mg/L		100	75 - 125
Hexachlorobutadiene	0.0500	0.05156		mg/L		103	75 - 125
Isopropylbenzene	0.0500	0.05232		mg/L		105	75 - 125
Methylene Chloride	0.0500	0.04749		mg/L		95	75 - 125
m,p-Xylenes	0.0500	0.05083		mg/L		102	75 - 125
MTBE	0.0500	0.05091		mg/L		102	65 - 135
Naphthalene	0.0500	0.05568		mg/L		111	70 - 130
n-Butylbenzene	0.0500	0.04985		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04911		mg/L		98	75 - 125
o-Xylene	0.0500	0.05061		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05171		mg/L		103	75 - 125
sec-Butylbenzene	0.0500	0.04979		mg/L		100	75 - 125
Styrene	0.0500	0.05135		mg/L		103	75 - 125
tert-Butylbenzene	0.0500	0.05096		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05163		mg/L		103	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04424		mg/L		88	74 - 125
Tetrachloroethene	0.0500	0.05131		mg/L		103	71 - 125
Toluene	0.0500	0.04797		mg/L		96	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04947		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04976		mg/L		100	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05644		mg/L		113	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05239		mg/L		105	75 - 135
1,1,1-Trichloroethane	0.0500	0.05196		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.04757		mg/L		95	70 - 130
Trichloroethene	0.0500	0.05067		mg/L		101	75 - 135
Trichlorofluoromethane	0.0500	0.05625		mg/L		112	60 - 140
1,2,3-Trichloropropane	0.0500	0.04513		mg/L		90	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05158		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05006		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04490		mg/L		90	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
Toluene-d8 (Surr)	96		80 - 117

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QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-81338/4

Matrix: Water

Analysis Batch: 81338

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	0.04850		mg/L		97	75 - 125	1	25
Bromobenzene	0.0500	0.04981		mg/L		100	75 - 125	3	25
Bromochloromethane	0.0500	0.04839		mg/L		97	60 - 140	1	25
Bromodichloromethane	0.0500	0.05069		mg/L		101	75 - 125	2	25
Bromoform	0.0500	0.05469		mg/L		109	70 - 130	2	25
Bromomethane	0.0500	0.04634		mg/L		93	60 - 140	3	25
2-Butanone	0.250	0.2306		mg/L		92	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05546		mg/L		111	70 - 130	2	25
Chlorobenzene	0.0500	0.05038		mg/L		101	65 - 135	4	25
Chloroethane	0.0500	0.04718		mg/L		94	60 - 140	3	25
Chloroform	0.0500	0.04974		mg/L		99	70 - 121	0	25
Chloromethane	0.0500	0.04098		mg/L		82	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05074		mg/L		101	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05068		mg/L		101	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04751		mg/L		95	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04940		mg/L		99	74 - 125	2	25
Dibromochloromethane	0.0500	0.05267		mg/L		105	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05712		mg/L		114	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05070		mg/L		101	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05095		mg/L		102	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05017		mg/L		100	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.04996		mg/L		100	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04428		mg/L		89	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.04891		mg/L		98	70 - 130	0	25
1,2-Dichloroethane	0.0500	0.05085		mg/L		102	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.05119		mg/L		102	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04674		mg/L		93	74 - 125	2	25
1,3-Dichloropropane	0.0500	0.04744		mg/L		95	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05359		mg/L		107	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.05032		mg/L		101	75 - 125	1	25
Ethylbenzene	0.0500	0.05191		mg/L		104	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05544		mg/L		111	75 - 125	7	25
Isopropylbenzene	0.0500	0.05514		mg/L		110	75 - 125	5	25
Methylene Chloride	0.0500	0.04693		mg/L		94	75 - 125	1	25
m,p-Xylenes	0.0500	0.05292		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.05037		mg/L		101	65 - 135	1	25
Naphthalene	0.0500	0.05877		mg/L		118	70 - 130	5	25
n-Butylbenzene	0.0500	0.05384		mg/L		108	75 - 125	8	25
N-Propylbenzene	0.0500	0.05223		mg/L		104	75 - 125	6	25
o-Xylene	0.0500	0.05267		mg/L		105	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05534		mg/L		111	75 - 125	7	25
sec-Butylbenzene	0.0500	0.05431		mg/L		109	75 - 125	9	25
Styrene	0.0500	0.05235		mg/L		105	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05455		mg/L		109	75 - 125	7	25
1,1,1,2-Tetrachloroethane	0.0500	0.05228		mg/L		105	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04599		mg/L		92	74 - 125	4	25
Tetrachloroethene	0.0500	0.05534		mg/L		111	71 - 125	8	25
Toluene	0.0500	0.04957		mg/L		99	70 - 130	3	25

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QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-81338/4

Matrix: Water

Analysis Batch: 81338

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	0.05189		mg/L		104	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.05089		mg/L		102	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.06069		mg/L		121	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05502		mg/L		110	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.05305		mg/L		106	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04779		mg/L		96	70 - 130	0	25
Trichloroethene	0.0500	0.05296		mg/L		106	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.05818		mg/L		116	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04511		mg/L		90	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05361		mg/L		107	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05318		mg/L		106	60 - 140	6	25
Vinyl chloride	0.0500	0.04759		mg/L		95	60 - 140	6	25

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

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

Lab Sample ID: MB 860-81494/1-A

Matrix: Water

Analysis Batch: 81394

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81494

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		12/12/22 15:51	12/12/22 22:23	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		12/12/22 15:51	12/12/22 22:23	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		12/12/22 15:51	12/12/22 22:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135	12/12/22 15:51	12/12/22 22:23	1
o-Terphenyl	84		70 - 135	12/12/22 15:51	12/12/22 22:23	1

Lab Sample ID: LCS 860-81494/2-A

Matrix: Water

Analysis Batch: 81394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.4	107.4		mg/L		108	70 - 135
Diesel Range Organics (Over C10-C28)	99.5	92.08		mg/L		93	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 135
o-Terphenyl	84		70 - 135

Eurofins Midland

QC Sample Results

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

Job ID: 880-22563-1

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

Lab Sample ID: LCSD 860-81494/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81394				Prep Batch: 81494							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.4	109.4		mg/L		110	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			99.5	91.82		mg/L		92	70 - 135	0	35
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 135								
o-Terphenyl	81		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-81288/3				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81288											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<0.200	U	0.500	0.200 mg/L			12/10/22 15:33	1			
Fluoride	<0.100	U	0.500	0.100 mg/L			12/10/22 15:33	1			
Sulfate	<0.109	U	0.500	0.109 mg/L			12/10/22 15:33	1			

Lab Sample ID: LCS 860-81288/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81288											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.752		mg/L		98	90 - 110		
Fluoride			10.0	10.39		mg/L		104	90 - 110		
Sulfate			10.0	9.598		mg/L		96	90 - 110		

Lab Sample ID: LCSD 860-81288/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81288											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.839		mg/L		98	90 - 110	1	20
Fluoride			10.0	10.46		mg/L		105	90 - 110	1	20
Sulfate			10.0	9.672		mg/L		97	90 - 110	1	20

Lab Sample ID: LLCS 860-81288/86				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81288											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5327		mg/L		107	50 - 150		
Fluoride			0.500	0.5326		mg/L		107	50 - 150		
Sulfate			0.500	0.2619	J	mg/L		52	50 - 150		

QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22563-1 MS

Matrix: Water

Analysis Batch: 81288

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	83.7		10.0	92.52	4	mg/L		88	90 - 110
Fluoride	0.809		10.0	10.76		mg/L		99	90 - 110
Sulfate	44.2		10.0	53.63	4	mg/L		94	90 - 110

Lab Sample ID: 880-22563-1 MSD

Matrix: Water

Analysis Batch: 81288

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	83.7		10.0	92.99	4	mg/L		93	90 - 110	1	20
Fluoride	0.809		10.0	10.84		mg/L		100	90 - 110	1	20
Sulfate	44.2		10.0	53.83	4	mg/L		96	90 - 110	0	20

Lab Sample ID: MB 860-81289/3

Matrix: Water

Analysis Batch: 81289

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			12/10/22 15:33	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/10/22 15:33	1

Lab Sample ID: LCS 860-81289/4

Matrix: Water

Analysis Batch: 81289

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	9.788		mg/L		98	80 - 120
Nitrite as N	5.00	4.716		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-81289/5

Matrix: Water

Analysis Batch: 81289

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	9.833		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.823		mg/L		96	80 - 120	2	20

Lab Sample ID: LLCS 860-81289/85

Matrix: Water

Analysis Batch: 81289

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	0.1054		mg/L		105	50 - 150
Nitrite as N	0.100	0.1111		mg/L		111	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22563-1 MS

Matrix: Water

Analysis Batch: 81289

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	0.0610	J	10.0	9.316		mg/L		93	80 - 120
Nitrite as N	0.247		2.50	2.447		mg/L		88	80 - 120

Lab Sample ID: 880-22563-1 MSD

Matrix: Water

Analysis Batch: 81289

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	0.0610	J	10.0	9.362		mg/L		93	80 - 120	0	15
Nitrite as N	0.247		2.50	2.466		mg/L		89	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-81698/3

Matrix: Water

Analysis Batch: 81698

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			12/13/22 11:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/13/22 11:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/13/22 11:37	1

Lab Sample ID: LCS 860-81698/4

Matrix: Water

Analysis Batch: 81698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	254.4		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-81698/5

Matrix: Water

Analysis Batch: 81698

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	254.1		mg/L		102	85 - 115	0	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-81543/1

Matrix: Water

Analysis Batch: 81543

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			12/12/22 18:39	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-22563-1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 860-81543/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81543											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			51.4	46.00		mg/L		90	80 - 120		

Lab Sample ID: LCSD 860-81543/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81543											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			51.4	46.00		mg/L		90	80 - 120	0	20

Lab Sample ID: 880-22563-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81543											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	51.4	46.40		mg/L		90	80 - 120		

Lab Sample ID: 880-22563-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 81543											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.40		mg/L		90	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-22563-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 81338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	8260C	
880-22563-2	MW-2	Total/NA	Water	8260C	
MB 860-81338/9	Method Blank	Total/NA	Water	8260C	
LCS 860-81338/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-81338/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	8015 NM	
880-22563-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 81394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-81494/1-A	Method Blank	Total/NA	Water	8015B NM	81494
LCS 860-81494/2-A	Lab Control Sample	Total/NA	Water	8015B NM	81494
LCSD 860-81494/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	81494

Prep Batch: 81494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-22563-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-81494/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-81494/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-81494/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 81617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	8015B NM	81494
880-22563-2	MW-2	Total/NA	Water	8015B NM	81494

HPLC/IC

Analysis Batch: 81288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	300.0	
880-22563-2	MW-2	Total/NA	Water	300.0	
MB 860-81288/3	Method Blank	Total/NA	Water	300.0	
LCS 860-81288/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-81288/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-81288/86	Lab Control Sample	Total/NA	Water	300.0	
880-22563-1 MS	MW-1	Total/NA	Water	300.0	
880-22563-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 81289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	300.0	
880-22563-2	MW-2	Total/NA	Water	300.0	
MB 860-81289/3	Method Blank	Total/NA	Water	300.0	
LCS 860-81289/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-81289/5	Lab Control Sample Dup	Total/NA	Water	300.0	

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QC Association Summary

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

Job ID: 880-22563-1

HPLC/IC (Continued)

Analysis Batch: 81289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-81289/85	Lab Control Sample	Total/NA	Water	300.0	
880-22563-1 MS	MW-1	Total/NA	Water	300.0	
880-22563-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 81495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-22563-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 81543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-22563-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-81543/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-81543/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-81543/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-22563-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-22563-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 81698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	SM 2320B	
880-22563-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-81698/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-81698/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-81698/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 81703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22563-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-22563-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-22563-1

Client Sample ID: MW-1

Date Collected: 12/09/22 11:35

Date Received: 12/09/22 14:56

Lab Sample ID: 880-22563-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	81338	TTD	EET HOU	12/12/22 14:54
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	12/14/22 19:02
Total/NA	Prep	8015NM Aq Prep			81494	SYH	EET HOU	12/12/22 15:51
Total/NA	Analysis	8015B NM		1	81617	SAR	EET HOU	12/13/22 13:17
Total/NA	Analysis	300.0		1	81288	WP	EET HOU	12/10/22 16:42
Total/NA	Analysis	300.0		1	81289	WP	EET HOU	12/10/22 16:42
Total/NA	Analysis	SM 2320B		1	81698	TL	EET HOU	12/13/22 15:23
Total/NA	Analysis	SM 4500 CO2 D		1	81703	SC	EET HOU	12/13/22 16:48
Total/NA	Analysis	SM 4500 H+ B		1	81495	TL	EET HOU	12/12/22 14:41
Total/NA	Analysis	SM 4500 S2 F		1	81543	SCI	EET HOU	12/12/22 18:39

Client Sample ID: MW-2

Date Collected: 12/09/22 12:20

Date Received: 12/09/22 14:56

Lab Sample ID: 880-22563-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	81338	TTD	EET HOU	12/12/22 15:14
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	12/14/22 19:02
Total/NA	Prep	8015NM Aq Prep			81494	SYH	EET HOU	12/12/22 15:51
Total/NA	Analysis	8015B NM		1	81617	SAR	EET HOU	12/13/22 13:37
Total/NA	Analysis	300.0		1	81288	WP	EET HOU	12/10/22 17:19
Total/NA	Analysis	300.0		1	81289	WP	EET HOU	12/10/22 17:19
Total/NA	Analysis	SM 2320B		1	81698	TL	EET HOU	12/13/22 15:40
Total/NA	Analysis	SM 4500 CO2 D		1	81703	SC	EET HOU	12/13/22 16:50
Total/NA	Analysis	SM 4500 H+ B		1	81495	TL	EET HOU	12/12/22 14:44
Total/NA	Analysis	SM 4500 S2 F		1	81543	SCI	EET HOU	12/12/22 18:39

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: 880-22563-1

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: 880-22563-1

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: 880-22563-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22563-1	MW-1	Water	12/09/22 11:35	12/09/22 14:56
880-22563-2	MW-2	Water	12/09/22 12:20	12/09/22 14:56

- 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: 22503

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

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

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):	29/24	Thermometer ID																		
Received Intact:	Yes	No																		
Cooler Custody Seals:	Yes	No	Correction Factor:	-38																
Sample Custody Seals:	Yes	No	Total Containers:																	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth																
MW-1	GW	12-9-22	11:30	-	Number of Containers	7	Dissolved Carbon Dioxide 4500 CO2 c	X	Dissolved Sulfide SW-846 #376.2	X	VOC SW-846 #8260	X	TPH EPA Method #8015	X	Chloride EPA Method #846 300	X	pH EPA SW-846 Method 150.1	X		
MW-2	GW	12-9-22	12:20	-	Number of Containers	7	Dissolved Carbon Dioxide 4500 CO2 c	X	Dissolved Sulfide SW-846 #376.2	X	VOC SW-846 #8260	X	TPH EPA Method #8015	X	Chloride EPA Method #846 300	X	pH EPA SW-846 Method 150.1	X		
880-22563 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	Cu	Co	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		12/9/22	2		
3		1457	4		
5			6		

Revised Date 05/14/18 Rev 2018.1

 eurofins

Environment Testing



Client Information (Sub Contract Lab)

COC No:
880-59011

Lab P#: Kramer Jessca
E-Mail: Jessica.Kramer@et.eurofinsus.com
Accreditations Required (See note): NELAP Texas

Carrier Tracking No(s)
Page: Page 1 of 1

Sampled On: 12/13/2022
TAT Requested (days):

PO #:
WO #:
Project #: 88000023
SSOW#:

Due Date Requested: 12/13/2022

Address:
City:
State, Zip:
TX, 77477
Phone:
Email:
Fax:

Company: Eurofins Environment Testing South Central LLC
Job #: 880-22563-1

Analysis Requested

Preservation Codes

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2SO4S
E NaHSO4 Q Na2SO3
F MeOH R Na2SO3
G Antichlor S H2SO4
H Ascorbic Acid T TSP Dodecalhydrate
I Ice U Acetonitrile
J DI Water V MOAA
K EDTA W pH 4-5
L EDA Y Trima
Other Z other (specify)

Special Instructions/Note

Total Number of Containers

Dissolved Sulphide

Dissolved Sulphide

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: [Signature]
Relinquished by: [Signature] FedEx
Relinquished by: [Signature]

Received by: FedEx
Date/Time: 12/10/2022 9:28
Temp: +1.2 °C
Cooler Temperature(s) °C and Other Remarks:

IR ID:HOU-344

06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22563-1

Login Number: 22563

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: 880-22563-1

Login Number: 22563

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/10/22 10:22 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/29/2022 1:48:24 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-22810-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/29/2022 1:48:24 PM

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

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

Laboratory Job ID: 880-22810-1

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Definitions/Glossary

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

Job ID: 880-22810-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Glossary

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

Eurofins Midland

Definitions/Glossary

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

Job ID: 880-22810-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
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- 13
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Case Narrative

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

Job ID: 880-22810-1

Job ID: 880-22810-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-22810-1

Receipt

The samples were received on 12/15/2022 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-82271 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for analytical batch 860-82272 contained Nitrate as N and Nitrite as N greater than the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed. The data have been qualified and reported.

Method 300_ORGFMS: The method blank for analytical batch 860-82272 contained Nitrite as N 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.

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: 880-22810-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-22810-1

Date Collected: 12/15/22 11:05

Matrix: Water

Date Received: 12/15/22 15:20

Method: SW846 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		12/18/22 00:55	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		12/18/22 00:55	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		12/18/22 00:55	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		12/18/22 00:55	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		12/18/22 00:55	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		12/18/22 00:55	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		12/18/22 00:55	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		12/18/22 00:55	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		12/18/22 00:55	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		12/18/22 00:55	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		12/18/22 00:55	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		12/18/22 00:55	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		12/18/22 00:55	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		12/18/22 00:55	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		12/18/22 00:55	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		12/18/22 00:55	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		12/18/22 00:55	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		12/18/22 00:55	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		12/18/22 00:55	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		12/18/22 00:55	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		12/18/22 00:55	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		12/18/22 00:55	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		12/18/22 00:55	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		12/18/22 00:55	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		12/18/22 00:55	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		12/18/22 00:55	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		12/18/22 00:55	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		12/18/22 00:55	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		12/18/22 00:55	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		12/18/22 00:55	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		12/18/22 00:55	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		12/18/22 00:55	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		12/18/22 00:55	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		12/18/22 00:55	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		12/18/22 00:55	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		12/18/22 00:55	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		12/18/22 00:55	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		12/18/22 00:55	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		12/18/22 00:55	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		12/18/22 00:55	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		12/18/22 00:55	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		12/18/22 00:55	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		12/18/22 00:55	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		12/18/22 00:55	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		12/18/22 00:55	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		12/18/22 00:55	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		12/18/22 00:55	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		12/18/22 00:55	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		12/18/22 00:55	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-22810-1

Date Collected: 12/15/22 11:05

Matrix: Water

Date Received: 12/15/22 15:20

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			12/18/22 00:55	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/18/22 00:55	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/18/22 00:55	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/18/22 00:55	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/18/22 00:55	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/18/22 00:55	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/18/22 00:55	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/18/22 00:55	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/18/22 00:55	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/18/22 00:55	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/18/22 00:55	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/18/22 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		12/18/22 00:55	1
Dibromofluoromethane (Surr)	97		75 - 131		12/18/22 00:55	1
1,2-Dichloroethane-d4 (Surr)	113		63 - 144		12/18/22 00:55	1
Toluene-d8 (Surr)	99		80 - 117		12/18/22 00:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.918	U	4.64	0.918 mg/L			12/21/22 19:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.918	U	4.64	0.918 mg/L		12/19/22 16:04	12/19/22 22:19	1
Diesel Range Organics (Over C10-C28)	<0.918	U	4.64	0.918 mg/L		12/19/22 16:04	12/19/22 22:19	1
Oil Range Organics (Over C28-C36)	<0.886	U	4.64	0.886 mg/L		12/19/22 16:04	12/19/22 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135	12/19/22 16:04	12/19/22 22:19	1
o-Terphenyl	76		70 - 135	12/19/22 16:04	12/19/22 22:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.1		0.500	0.200 mg/L			12/16/22 17:21	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			12/16/22 17:21	1
Fluoride	0.786		0.500	0.100 mg/L			12/16/22 17:21	1
Nitrite as N	0.121	B	0.100	0.0293 mg/L			12/16/22 17:21	1
Sulfate	44.3		0.500	0.109 mg/L			12/16/22 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	348		4.00	4.00 mg/L			12/19/22 15:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	348		4.00	4.00 mg/L			12/19/22 15:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/19/22 15:55	1
Carbon dioxide (SM 4500 CO2 D)	350			mg/L			12/19/22 15:28	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22810-1

Client Sample ID: MW-1

Lab Sample ID: 880-22810-1

Date Collected: 12/15/22 11:05

Matrix: Water

Date Received: 12/15/22 15:20

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	43.9			mg/L			12/19/22 15:28	1
pH (SM 4500 H+ B)	7.2	HF		SU			12/16/22 15:51	1
Temperature (SM 4500 H+ B)	15.7	HF		Degrees C			12/16/22 15:51	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			12/19/22 16:01	1

Client Sample ID: MW-2

Lab Sample ID: 880-22810-2

Date Collected: 12/15/22 12:00

Matrix: Water

Date Received: 12/15/22 15:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0148		0.00100	0.000533 mg/L			12/18/22 01:16	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/18/22 01:16	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/18/22 01:16	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/18/22 01:16	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/18/22 01:16	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/18/22 01:16	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/18/22 01:16	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/18/22 01:16	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/18/22 01:16	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/18/22 01:16	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/18/22 01:16	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/18/22 01:16	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/18/22 01:16	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/18/22 01:16	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/18/22 01:16	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/18/22 01:16	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/18/22 01:16	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/18/22 01:16	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/18/22 01:16	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/18/22 01:16	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/18/22 01:16	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/18/22 01:16	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/18/22 01:16	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/18/22 01:16	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/18/22 01:16	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/18/22 01:16	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/18/22 01:16	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/18/22 01:16	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/18/22 01:16	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/18/22 01:16	1
Ethylbenzene	0.0172		0.00100	0.000411 mg/L			12/18/22 01:16	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/18/22 01:16	1
Isopropylbenzene	0.00860		0.00100	0.000613 mg/L			12/18/22 01:16	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/18/22 01:16	1
m,p-Xylenes	0.0864		0.0100	0.00124 mg/L			12/18/22 01:16	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/18/22 01:16	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/18/22 01:16	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/18/22 01:16	1

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Client Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-22810-2

Date Collected: 12/15/22 12:00

Matrix: Water

Date Received: 12/15/22 15:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00233		0.00100	0.000498 mg/L			12/18/22 01:16	1
o-Xylene	0.0121		0.00100	0.000551 mg/L			12/18/22 01:16	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/18/22 01:16	1
sec-Butylbenzene	0.00102		0.00100	0.000468 mg/L			12/18/22 01:16	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/18/22 01:16	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/18/22 01:16	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/18/22 01:16	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/18/22 01:16	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/18/22 01:16	1
Toluene	0.00512		0.00100	0.000475 mg/L			12/18/22 01:16	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/18/22 01:16	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/18/22 01:16	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/18/22 01:16	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/18/22 01:16	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/18/22 01:16	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/18/22 01:16	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/18/22 01:16	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/18/22 01:16	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/18/22 01:16	1
1,2,4-Trimethylbenzene	0.0247		0.00100	0.000417 mg/L			12/18/22 01:16	1
1,3,5-Trimethylbenzene	0.00598		0.00100	0.000456 mg/L			12/18/22 01:16	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/18/22 01:16	1
Xylenes, Total	0.0985		0.0100	0.00124 mg/L			12/18/22 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		12/18/22 01:16	1
Dibromofluoromethane (Surr)	95		75 - 131		12/18/22 01:16	1
1,2-Dichloroethane-d4 (Surr)	112		63 - 144		12/18/22 01:16	1
Toluene-d8 (Surr)	100		80 - 117		12/18/22 01:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.71	J	5.00	0.988 mg/L			12/21/22 19:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.71	J	5.00	0.988 mg/L		12/21/22 12:11	12/27/22 13:32	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		12/21/22 12:11	12/27/22 13:32	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		12/21/22 12:11	12/27/22 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 135			12/21/22 12:11	12/27/22 13:32	1
o-Terphenyl	93		70 - 135			12/21/22 12:11	12/27/22 13:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		0.500	0.200 mg/L			12/16/22 17:55	1
Nitrate as N	0.331	B	0.100	0.0391 mg/L			12/16/22 17:55	1
Fluoride	0.120	J	0.500	0.100 mg/L			12/16/22 17:55	1

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Client Sample Results

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

Job ID: 880-22810-1

Client Sample ID: MW-2
Date Collected: 12/15/22 12:00
Date Received: 12/15/22 15:20

Lab Sample ID: 880-22810-2
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	1.64	B	0.100	0.0293	mg/L			12/16/22 17:55	1
Sulfate	91.2		0.500	0.109	mg/L			12/16/22 17:55	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1140		4.00	4.00	mg/L			12/19/22 16:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1140		4.00	4.00	mg/L			12/19/22 16:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/19/22 16:19	1
Carbon dioxide (SM 4500 CO2 D)	2440				mg/L			12/19/22 15:28	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1440				mg/L			12/19/22 15:28	1
pH (SM 4500 H+ B)	6.2	HF			SU			12/16/22 15:52	1
Temperature (SM 4500 H+ B)	15.3	HF			Degrees C			12/16/22 15:52	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			12/19/22 16:01	1

Surrogate Summary

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

Job ID: 880-22810-1

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 (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
880-22810-1	MW-1	99	97	113	99
880-22810-2	MW-2	99	95	112	100
LCS 860-82378/3	Lab Control Sample	97	97	105	97
LCSD 860-82378/4	Lab Control Sample Dup	100	97	107	95
MB 860-82378/11	Method Blank	98	96	111	99

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)
880-22810-1	MW-1	83	76
880-22810-2	MW-2	85	93
LCS 860-82601/2-A	Lab Control Sample	84	77
LCS 860-82807/2-A	Lab Control Sample	99	120
LCSD 860-82601/3-A	Lab Control Sample Dup	79	80
LCSD 860-82807/3-A	Lab Control Sample Dup	95	119
MB 860-82601/1-A	Method Blank	88	85
MB 860-82807/1-A	Method Blank	98	112

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-82378/11

Matrix: Water

Analysis Batch: 82378

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			12/18/22 00:14	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/18/22 00:14	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/18/22 00:14	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/18/22 00:14	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/18/22 00:14	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/18/22 00:14	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/18/22 00:14	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/18/22 00:14	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/18/22 00:14	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/18/22 00:14	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/18/22 00:14	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/18/22 00:14	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/18/22 00:14	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/18/22 00:14	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/18/22 00:14	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/18/22 00:14	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/18/22 00:14	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/18/22 00:14	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/18/22 00:14	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/18/22 00:14	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/18/22 00:14	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/18/22 00:14	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/18/22 00:14	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/18/22 00:14	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/18/22 00:14	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/18/22 00:14	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/18/22 00:14	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/18/22 00:14	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/18/22 00:14	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/18/22 00:14	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/18/22 00:14	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/18/22 00:14	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/18/22 00:14	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/18/22 00:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/18/22 00:14	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/18/22 00:14	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/18/22 00:14	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/18/22 00:14	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/18/22 00:14	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/18/22 00:14	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/18/22 00:14	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/18/22 00:14	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/18/22 00:14	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/18/22 00:14	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/18/22 00:14	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/18/22 00:14	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/18/22 00:14	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/18/22 00:14	1

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QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-82378/11

Matrix: Water

Analysis Batch: 82378

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			12/18/22 00:14	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/18/22 00:14	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/18/22 00:14	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/18/22 00:14	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/18/22 00:14	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/18/22 00:14	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/18/22 00:14	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/18/22 00:14	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/18/22 00:14	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/18/22 00:14	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/18/22 00:14	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/18/22 00:14	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/18/22 00:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		12/18/22 00:14	1
Dibromofluoromethane (Surr)	96		75 - 131		12/18/22 00:14	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		12/18/22 00:14	1
Toluene-d8 (Surr)	99		80 - 117		12/18/22 00:14	1

Lab Sample ID: LCS 860-82378/3

Matrix: Water

Analysis Batch: 82378

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	0.04315		mg/L		86	75 - 125
Bromobenzene	0.0500	0.04587		mg/L		92	75 - 125
Bromochloromethane	0.0500	0.04528		mg/L		91	60 - 140
Bromodichloromethane	0.0500	0.04836		mg/L		97	75 - 125
Bromoform	0.0500	0.05303		mg/L		106	70 - 130
Bromomethane	0.0500	0.05019		mg/L		100	60 - 140
2-Butanone	0.250	0.2177		mg/L		87	60 - 140
Carbon tetrachloride	0.0500	0.04806		mg/L		96	70 - 130
Chlorobenzene	0.0500	0.04623		mg/L		92	65 - 135
Chloroethane	0.0500	0.04774		mg/L		95	60 - 140
Chloroform	0.0500	0.04561		mg/L		91	70 - 121
Chloromethane	0.0500	0.04178		mg/L		84	60 - 140
2-Chlorotoluene	0.0500	0.04460		mg/L		89	73 - 125
4-Chlorotoluene	0.0500	0.04501		mg/L		90	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04066		mg/L		81	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04525		mg/L		91	74 - 125
Dibromochloromethane	0.0500	0.04999		mg/L		100	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05168		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.04635		mg/L		93	73 - 125
1,2-Dichlorobenzene	0.0500	0.04601		mg/L		92	75 - 125
1,3-Dichlorobenzene	0.0500	0.04575		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04541		mg/L		91	75 - 125
Dichlorodifluoromethane	0.0500	0.04538		mg/L		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-82378/3

Matrix: Water

Analysis Batch: 82378

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	0.04117		mg/L		82	70 - 130
1,2-Dichloroethane	0.0500	0.05022		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.04254		mg/L		85	50 - 150
1,2-Dichloropropane	0.0500	0.04103		mg/L		82	74 - 125
1,3-Dichloropropane	0.0500	0.04317		mg/L		86	75 - 125
2,2-Dichloropropane	0.0500	0.04246		mg/L		85	75 - 125
1,1-Dichloropropene	0.0500	0.04181		mg/L		84	75 - 125
Ethylbenzene	0.0500	0.04629		mg/L		93	75 - 125
Hexachlorobutadiene	0.0500	0.04802		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04832		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.04144		mg/L		83	75 - 125
m,p-Xylenes	0.0500	0.04649		mg/L		93	75 - 125
MTBE	0.0500	0.04561		mg/L		91	65 - 135
Naphthalene	0.0500	0.05022		mg/L		100	70 - 130
n-Butylbenzene	0.0500	0.04476		mg/L		90	75 - 125
N-Propylbenzene	0.0500	0.04345		mg/L		87	75 - 125
o-Xylene	0.0500	0.04774		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04681		mg/L		94	75 - 125
sec-Butylbenzene	0.0500	0.04498		mg/L		90	75 - 125
Styrene	0.0500	0.04844		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.04606		mg/L		92	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05026		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.03891		mg/L		78	74 - 125
Tetrachloroethene	0.0500	0.04835		mg/L		97	71 - 125
Toluene	0.0500	0.04441		mg/L		89	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04284		mg/L		86	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04580		mg/L		92	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05181		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04858		mg/L		97	75 - 135
1,1,1-Trichloroethane	0.0500	0.04601		mg/L		92	70 - 130
1,1,2-Trichloroethane	0.0500	0.04428		mg/L		89	70 - 130
Trichloroethene	0.0500	0.04957		mg/L		99	75 - 135
Trichlorofluoromethane	0.0500	0.05833		mg/L		117	60 - 140
1,2,3-Trichloropropane	0.0500	0.03982		mg/L		80	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04716		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04648		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04632		mg/L		93	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-82378/4

Matrix: Water

Analysis Batch: 82378

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	0.04251		mg/L		85	75 - 125	2	25
Bromobenzene	0.0500	0.04627		mg/L		93	75 - 125	1	25
Bromochloromethane	0.0500	0.04514		mg/L		90	60 - 140	0	25
Bromodichloromethane	0.0500	0.04855		mg/L		97	75 - 125	0	25
Bromoform	0.0500	0.05353		mg/L		107	70 - 130	1	25
Bromomethane	0.0500	0.05002		mg/L		100	60 - 140	0	25
2-Butanone	0.250	0.2286		mg/L		91	60 - 140	5	25
Carbon tetrachloride	0.0500	0.04684		mg/L		94	70 - 130	3	25
Chlorobenzene	0.0500	0.04481		mg/L		90	65 - 135	3	25
Chloroethane	0.0500	0.04638		mg/L		93	60 - 140	3	25
Chloroform	0.0500	0.04515		mg/L		90	70 - 121	1	25
Chloromethane	0.0500	0.04109		mg/L		82	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04450		mg/L		89	73 - 125	0	25
4-Chlorotoluene	0.0500	0.04455		mg/L		89	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04095		mg/L		82	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04530		mg/L		91	74 - 125	0	25
Dibromochloromethane	0.0500	0.05052		mg/L		101	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05427		mg/L		109	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04712		mg/L		94	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04799		mg/L		96	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04645		mg/L		93	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04593		mg/L		92	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04073		mg/L		81	70 - 130	11	25
1,1-Dichloroethane	0.0500	0.04186		mg/L		84	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05053		mg/L		101	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04169		mg/L		83	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04082		mg/L		82	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04412		mg/L		88	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04182		mg/L		84	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04031		mg/L		81	75 - 125	4	25
Ethylbenzene	0.0500	0.04475		mg/L		89	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.04998		mg/L		100	75 - 125	4	25
Isopropylbenzene	0.0500	0.04722		mg/L		94	75 - 125	2	25
Methylene Chloride	0.0500	0.04159		mg/L		83	75 - 125	0	25
m,p-Xylenes	0.0500	0.04591		mg/L		92	75 - 125	1	25
MTBE	0.0500	0.04768		mg/L		95	65 - 135	4	25
Naphthalene	0.0500	0.05513		mg/L		110	70 - 130	9	25
n-Butylbenzene	0.0500	0.04523		mg/L		90	75 - 125	1	25
N-Propylbenzene	0.0500	0.04445		mg/L		89	75 - 125	2	25
o-Xylene	0.0500	0.04639		mg/L		93	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04785		mg/L		96	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04686		mg/L		94	75 - 125	4	25
Styrene	0.0500	0.04784		mg/L		96	75 - 125	1	25
tert-Butylbenzene	0.0500	0.04659		mg/L		93	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04844		mg/L		97	72 - 125	4	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04063		mg/L		81	74 - 125	4	25
Tetrachloroethene	0.0500	0.04668		mg/L		93	71 - 125	4	25
Toluene	0.0500	0.04229		mg/L		85	70 - 130	5	25

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QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-82378/4

Matrix: Water

Analysis Batch: 82378

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	0.04335		mg/L		87	75 - 125	1		25
trans-1,3-Dichloropropene	0.0500	0.04652		mg/L		93	66 - 125	2		25
1,2,3-Trichlorobenzene	0.0500	0.05567		mg/L		111	75 - 137	7		25
1,2,4-Trichlorobenzene	0.0500	0.05078		mg/L		102	75 - 135	4		25
1,1,1-Trichloroethane	0.0500	0.04592		mg/L		92	70 - 130	0		25
1,1,2-Trichloroethane	0.0500	0.04408		mg/L		88	70 - 130	0		25
Trichloroethene	0.0500	0.04795		mg/L		96	75 - 135	3		25
Trichlorofluoromethane	0.0500	0.05278		mg/L		106	60 - 140	10		25
1,2,3-Trichloropropane	0.0500	0.04315		mg/L		86	75 - 125	8		25
1,2,4-Trimethylbenzene	0.0500	0.04776		mg/L		96	75 - 125	1		25
1,3,5-Trimethylbenzene	0.0500	0.04703		mg/L		94	60 - 140	1		25
Vinyl chloride	0.0500	0.04535		mg/L		91	60 - 140	2		25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	107		63 - 144
Toluene-d8 (Surr)	95		80 - 117

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

Lab Sample ID: MB 860-82601/1-A

Matrix: Water

Analysis Batch: 82519

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82601

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		12/19/22 16:04	12/19/22 21:00	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		12/19/22 16:04	12/19/22 21:00	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		12/19/22 16:04	12/19/22 21:00	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	88		70 - 135	12/19/22 16:04	12/19/22 21:00	1
o-Terphenyl	85		70 - 135	12/19/22 16:04	12/19/22 21:00	1

Lab Sample ID: LCS 860-82601/2-A

Matrix: Water

Analysis Batch: 82519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	99.4	116.0		mg/L		117	70 - 135	
Diesel Range Organics (Over C10-C28)	99.5	94.48		mg/L		95	70 - 135	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	84		70 - 135
o-Terphenyl	77		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-82601/3-A

Matrix: Water

Analysis Batch: 82519

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.4	117.7		mg/L		118	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	99.5	97.94		mg/L		98	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	79		70 - 135						
o-Terphenyl	80		70 - 135						

Lab Sample ID: MB 860-82807/1-A

Matrix: Water

Analysis Batch: 82707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82807

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		12/20/22 15:06	12/20/22 19:04	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		12/20/22 15:06	12/20/22 19:04	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		12/20/22 15:06	12/20/22 19:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135			12/20/22 15:06	12/20/22 19:04	1
o-Terphenyl	112		70 - 135			12/20/22 15:06	12/20/22 19:04	1

Lab Sample ID: LCS 860-82807/2-A

Matrix: Water

Analysis Batch: 82707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	99.4	124.3		mg/L		125	70 - 135		
Diesel Range Organics (Over C10-C28)	99.5	118.4		mg/L		119	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	99		70 - 135						
o-Terphenyl	120		70 - 135						

Lab Sample ID: LCSD 860-82807/3-A

Matrix: Water

Analysis Batch: 82707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82807

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.4	117.4		mg/L		118	70 - 135	6	35
Diesel Range Organics (Over C10-C28)	99.5	113.3		mg/L		114	70 - 135	4	35

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QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-82807/3-A

Matrix: Water

Analysis Batch: 82707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82807

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 135
o-Terphenyl	119		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-82271/3

Matrix: Water

Analysis Batch: 82271

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.200	U	0.500	0.200 mg/L			12/16/22 14:33	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			12/16/22 14:33	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			12/16/22 14:33	1	

Lab Sample ID: LCS 860-82271/4

Matrix: Water

Analysis Batch: 82271

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			10.0	9.887		mg/L		99	90 - 110	
Fluoride			10.0	10.61		mg/L		106	90 - 110	
Sulfate			10.0	9.714		mg/L		97	90 - 110	

Lab Sample ID: LCSD 860-82271/5

Matrix: Water

Analysis Batch: 82271

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			10.0	9.832		mg/L		98	90 - 110	1	20
Fluoride			10.0	10.54		mg/L		105	90 - 110	1	20
Sulfate			10.0	9.617		mg/L		96	90 - 110	1	20

Lab Sample ID: 880-22810-1 MS

Matrix: Water

Analysis Batch: 82271

Client Sample ID: MW-1

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	82.1		10.0	91.82	4	mg/L		97	90 - 110	
Fluoride	0.786		10.0	10.05		mg/L		93	90 - 110	
Sulfate	44.3		10.0	65.73	4	mg/L		214	90 - 110	

Lab Sample ID: 880-22810-1 MSD

Matrix: Water

Analysis Batch: 82271

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	82.1		10.0	91.80	4	mg/L		97	90 - 110	0	20
Fluoride	0.786		10.0	10.43		mg/L		96	90 - 110	4	20
Sulfate	44.3		10.0	65.95	4	mg/L		216	90 - 110	0	20

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QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-82272/3

Matrix: Water

Analysis Batch: 82272

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.05943	J	0.100	0.0391 mg/L			12/16/22 14:33	1
Nitrite as N	0.03561	J	0.100	0.0293 mg/L			12/16/22 14:33	1

Lab Sample ID: LCS 860-82272/4

Matrix: Water

Analysis Batch: 82272

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	9.872		mg/L		99	80 - 120
Nitrite as N	5.00	5.159		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-82272/5

Matrix: Water

Analysis Batch: 82272

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	9.800		mg/L		98	80 - 120	1	20
Nitrite as N	5.00	5.110		mg/L		102	80 - 120	1	20

Lab Sample ID: LLCS 860-82272/6

Matrix: Water

Analysis Batch: 82272

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	0.1249		mg/L		125	50 - 150
Nitrite as N	0.100	0.1004		mg/L		100	50 - 150

Lab Sample ID: 880-22810-1 MS

Matrix: Water

Analysis Batch: 82272

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	9.593		mg/L		96	80 - 120
Nitrite as N	0.121	B	2.50	2.460		mg/L		94	80 - 120

Lab Sample ID: 880-22810-1 MSD

Matrix: Water

Analysis Batch: 82272

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	9.595		mg/L		96	80 - 120	0	15
Nitrite as N	0.121	B	2.50	2.458		mg/L		93	80 - 120	0	15

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QC Sample Results

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-82640/3

Matrix: Water

Analysis Batch: 82640

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			12/19/22 13:36	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/19/22 13:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/19/22 13:36	1

Lab Sample ID: LCS 860-82640/4

Matrix: Water

Analysis Batch: 82640

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	260.8		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-82640/5

Matrix: Water

Analysis Batch: 82640

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	257.9		mg/L		103	85 - 115	1	20

Lab Sample ID: 880-22810-1 DU

Matrix: Water

Analysis Batch: 82640

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	348		345.6		mg/L		0.8	20
Bicarbonate Alkalinity as CaCO3	348		345.6		mg/L		0.8	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-22810-2 DU

Matrix: Water

Analysis Batch: 82307

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.2	HF	6.1		SU		0.5	20
Temperature	15.3	HF	15.6		Degrees C		2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-82599/1

Matrix: Water

Analysis Batch: 82599

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			12/19/22 16:01	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-22810-1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 860-82599/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 82599											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			51.4	45.60		mg/L		89	80 - 120		

Lab Sample ID: LCSD 860-82599/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 82599											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			51.4	45.80		mg/L		89	80 - 120	0	20

Lab Sample ID: 880-22810-1 MS				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 82599											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.495	U	51.4	46.60		mg/L		91	80 - 120		

Lab Sample ID: 880-22810-1 MSD				Client Sample ID: MW-1							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 82599											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.80		mg/L		91	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 82378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	8260C	
880-22810-2	MW-2	Total/NA	Water	8260C	
MB 860-82378/11	Method Blank	Total/NA	Water	8260C	
LCS 860-82378/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-82378/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	8015 NM	
880-22810-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 82519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	8015B NM	82601
MB 860-82601/1-A	Method Blank	Total/NA	Water	8015B NM	82601
LCS 860-82601/2-A	Lab Control Sample	Total/NA	Water	8015B NM	82601
LCSD 860-82601/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	82601

Prep Batch: 82601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	8015NM Aq Prep	
MB 860-82601/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-82601/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-82601/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 82707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-82807/1-A	Method Blank	Total/NA	Water	8015B NM	82807
LCS 860-82807/2-A	Lab Control Sample	Total/NA	Water	8015B NM	82807
LCSD 860-82807/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	82807

Prep Batch: 82807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-82807/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-82807/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-82807/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 83408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-2	MW-2	Total/NA	Water	8015B NM	82807

HPLC/IC

Analysis Batch: 82271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	300.0	
880-22810-2	MW-2	Total/NA	Water	300.0	
MB 860-82271/3	Method Blank	Total/NA	Water	300.0	
LCS 860-82271/4	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-22810-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 82271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-82271/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-22810-1 MS	MW-1	Total/NA	Water	300.0	
880-22810-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 82272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	300.0	
880-22810-2	MW-2	Total/NA	Water	300.0	
MB 860-82272/3	Method Blank	Total/NA	Water	300.0	
LCS 860-82272/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-82272/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-82272/6	Lab Control Sample	Total/NA	Water	300.0	
880-22810-1 MS	MW-1	Total/NA	Water	300.0	
880-22810-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 82307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-22810-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-22810-2 DU	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 82580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-22810-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 82599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-22810-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-82599/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-82599/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-82599/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-22810-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-22810-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 82640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22810-1	MW-1	Total/NA	Water	SM 2320B	
880-22810-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-82640/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-82640/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-82640/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-22810-1 DU	MW-1	Total/NA	Water	SM 2320B	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-22810-1

Client Sample ID: MW-1

Date Collected: 12/15/22 11:05

Date Received: 12/15/22 15:20

Lab Sample ID: 880-22810-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	82378	NA	EET HOU	12/18/22 00:55
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	12/21/22 19:46
Total/NA	Prep	8015NM Aq Prep			82601	CZT	EET HOU	12/19/22 16:04
Total/NA	Analysis	8015B NM		1	82519	T1S	EET HOU	12/19/22 22:19
Total/NA	Analysis	300.0		1	82271	RBNS	EET HOU	12/16/22 17:21
Total/NA	Analysis	300.0		1	82272	RBNS	EET HOU	12/16/22 17:21
Total/NA	Analysis	SM 2320B		1	82640	TL	EET HOU	12/19/22 15:55
Total/NA	Analysis	SM 4500 CO2 D		1	82580	SC	EET HOU	12/19/22 15:28
Total/NA	Analysis	SM 4500 H+ B		1	82307	TL	EET HOU	12/16/22 15:51
Total/NA	Analysis	SM 4500 S2 F		1	82599	SCI	EET HOU	12/19/22 16:01

Client Sample ID: MW-2

Date Collected: 12/15/22 12:00

Date Received: 12/15/22 15:20

Lab Sample ID: 880-22810-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	82378	NA	EET HOU	12/18/22 01:16
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	12/21/22 19:46
Total/NA	Prep	8015NM Aq Prep			82807	SAR	EET HOU	12/21/22 12:11
Total/NA	Analysis	8015B NM		1	83408	SAR	EET HOU	12/27/22 13:32
Total/NA	Analysis	300.0		1	82271	RBNS	EET HOU	12/16/22 17:55
Total/NA	Analysis	300.0		1	82272	RBNS	EET HOU	12/16/22 17:55
Total/NA	Analysis	SM 2320B		1	82640	TL	EET HOU	12/19/22 16:19
Total/NA	Analysis	SM 4500 CO2 D		1	82580	SC	EET HOU	12/19/22 15:28
Total/NA	Analysis	SM 4500 H+ B		1	82307	TL	EET HOU	12/16/22 15:52
Total/NA	Analysis	SM 4500 S2 F		1	82599	SCI	EET HOU	12/19/22 16:01

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: 880-22810-1

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	T104704215-22-48	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: 880-22810-1

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: 880-22810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22810-1	MW-1	Water	12/15/22 11:05	12/15/22 15:20
880-22810-2	MW-2	Water	12/15/22 12:00	12/15/22 15:20

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



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

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Chain of Custody

Work Order No: 2287C

Project Manager:	Beaux Jennings		Bill to (if different)	
Company Name:	Ensolum LLC		Company Name:	
Address:	601 Marenfeld #400		Address:	
City, State ZIP:	Midland TX 79701		City, State ZIP:	
Phone:	432-230-3344		Email:	bennings@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):	1.4111	Thermometer ID					
Received intact:	(Yes) No						
Cooler Custody Seals:	Yes No	Correction Factor:					
Sample Custody Seals:	Yes No	Total Containers:					

[illegible]

ANALYSIS REQUEST						Work Order Notes	
Number of Containers							
Dissolved Carbon Dioxide 4500 CO ₂ c							
Dissovled 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							
						TAT starts the day received by the lab, if received by 4:30pm	
Sample Comments							

[illegible]

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 		12/15/22	2		
3		1520	4		
5			6		

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Lab PM: Kramer Jessica		Carrier Tracking No(s): 880-5950 1																											
Client Contact: Shipping/Receiving				E-Mail: Jessica.Kramer@et.eurofins.com		Page: Page 1 of 1																											
Company: Eurofins Environment Testing South Cent				Accreditations Required (See note): NELAP Texas		Job #: 880-22810-1																											
Address: 4145 Greenbriar Dr				Preservation Codes:																													
City: Stafford				<table border="0" style="width:100%;"> <tr> <td>A HCL</td><td>M Hexane</td> </tr> <tr> <td>B NaOH</td><td>N None</td> </tr> <tr> <td>C Zn Acetate</td><td>O AsNaO2</td> </tr> <tr> <td>D Nitric Acid</td><td>P Na2O4S</td> </tr> <tr> <td>E NaHSO4</td><td>Q Na2SO3</td> </tr> <tr> <td>F MeOH</td><td>R Na2S2O3</td> </tr> <tr> <td>G Ascorbic Acid</td><td>S H2SO4</td> </tr> <tr> <td>H TSP Dodecalhydrate</td><td>T U Azetone</td> </tr> <tr> <td>I Ice</td><td>V MCAA</td> </tr> <tr> <td>J DI Water</td><td>W pH 4-5</td> </tr> <tr> <td>K EDTA</td><td>Y Trizma</td> </tr> <tr> <td>L EDA</td><td>Z other (specify)</td> </tr> <tr> <td colspan="2">Other</td> </tr> </table>				A HCL	M Hexane	B NaOH	N None	C Zn Acetate	O AsNaO2	D Nitric Acid	P Na2O4S	E NaHSO4	Q Na2SO3	F MeOH	R Na2S2O3	G Ascorbic Acid	S H2SO4	H TSP Dodecalhydrate	T U Azetone	I Ice	V MCAA	J DI Water	W pH 4-5	K EDTA	Y Trizma	L EDA	Z other (specify)	Other	
A HCL	M Hexane																																
B NaOH	N None																																
C Zn Acetate	O AsNaO2																																
D Nitric Acid	P Na2O4S																																
E NaHSO4	Q Na2SO3																																
F MeOH	R Na2S2O3																																
G Ascorbic Acid	S H2SO4																																
H TSP Dodecalhydrate	T U Azetone																																
I Ice	V MCAA																																
J DI Water	W pH 4-5																																
K EDTA	Y Trizma																																
L EDA	Z other (specify)																																
Other																																	
Due Date Requested: 12/19/2022				Analysis Requested																													
TAT Requested (days):				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>8016MOD_NH/8016NM_Aq_Prep (MOD) Full List VOCs</td> <td>8016MOD_CO2_D (MOD) Carbon Dioxide</td> <td>SM4500_H+</td> <td>SM4500_S2_F/Sulfide, Total</td> <td>8016MOD_NH/8016NM_Aq_Prep (MOD) Full List TPH</td> <td>300_ORGFM_28D (MOD) Custom List</td> <td>300_ORGFM_S1 (MOD) Copy Analytes</td> <td>2320B1 (MOD) Copy Analytes</td> <td>8016MOD_CO2</td> <td>Total Number of Containers</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				8016MOD_NH/8016NM_Aq_Prep (MOD) Full List VOCs	8016MOD_CO2_D (MOD) Carbon Dioxide	SM4500_H+	SM4500_S2_F/Sulfide, Total	8016MOD_NH/8016NM_Aq_Prep (MOD) Full List TPH	300_ORGFM_28D (MOD) Custom List	300_ORGFM_S1 (MOD) Copy Analytes	2320B1 (MOD) Copy Analytes	8016MOD_CO2	Total Number of Containers																
8016MOD_NH/8016NM_Aq_Prep (MOD) Full List VOCs	8016MOD_CO2_D (MOD) Carbon Dioxide	SM4500_H+	SM4500_S2_F/Sulfide, Total	8016MOD_NH/8016NM_Aq_Prep (MOD) Full List TPH	300_ORGFM_28D (MOD) Custom List	300_ORGFM_S1 (MOD) Copy Analytes	2320B1 (MOD) Copy Analytes	8016MOD_CO2	Total Number of Containers																								
PO #: 2281-240-4200(Tel)				Field Filtered Sample (Yes or No)																													
WFO #: 880000023				Perform MS/MSD (Yes or No)																													
Project #: South Hobbs 03B1417002				Matrix (Weather, Street, Overpass)																													
Site: South Hobbs				Preservation Code																													
Sample Identification Client ID (Lab ID)				Sample Type (C=Comp, G=Grab)																													
Sample Date				Sample Time																													
MW-1 (880-22810-1)				12/15/22 11:05 Mountain																													
MW-2 (880-22810-2)				12/15/22 12:00 Mountain																													
Special Instructions/Note:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DISSOLVED SULFIDE</td> <td>7</td> </tr> <tr> <td>DISSOLVED SULFIDE</td> <td>7</td> </tr> </table>				DISSOLVED SULFIDE	7	DISSOLVED SULFIDE	7																						
DISSOLVED SULFIDE	7																																
DISSOLVED SULFIDE	7																																

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV Other (specify) **Primary Deliverable Rank: 2**

Empty Kit Relinquished by: **Wak** Date: **12/15/22** Time: **11:05**

Relinquished by: **FedEx** Date: **12/16/2022** Time: **11:07**

Relinquished by: **FedEx** Date: **12/16/2022** Time: **11:07**

Relinquished by: **FedEx** Date: **12/16/2022** Time: **11:07**

Custody Seal Intact: **Yes** Custody Seal No: **IR ID:HOU-343**

Δ Yes Δ No

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22810-1

Login Number: 22810

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: 880-22810-1

Login Number: 22810

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/16/22 12:30 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/27/2022 12:53:20 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

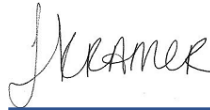
880-22811-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/27/2022 12:53:20 PM

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

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

Laboratory Job ID: 880-22811-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-22811-1
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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 880-22811-1
SDG: Hobbs NM

Job ID: 880-22811-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-22811-1**

Receipt

The sample was received on 12/15/2022 3:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-82271 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The method blank for preparation batch 860-82272 contained Nitrite as N above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 300_ORGFMS: The method blank for analytical batch 860-82272 contained Nitrate as N greater than the method detection limit (MDL); therefore, re-extraction and/or re-analysis of samples was not performed. The data have been qualified and reported.

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, magnesium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-82415 and analytical batch 860-82619 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 200.7: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-22811-1). Elevated reporting limits (RLs) are provided.

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

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: 880-22811-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-22811-1

Date Collected: 12/15/22 10:40

Matrix: Water

Date Received: 12/15/22 15:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00192		0.00100	0.000533 mg/L			12/18/22 01:37	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			12/18/22 01:37	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			12/18/22 01:37	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			12/18/22 01:37	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			12/18/22 01:37	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			12/18/22 01:37	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			12/18/22 01:37	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			12/18/22 01:37	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			12/18/22 01:37	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			12/18/22 01:37	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			12/18/22 01:37	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			12/18/22 01:37	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			12/18/22 01:37	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			12/18/22 01:37	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			12/18/22 01:37	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			12/18/22 01:37	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			12/18/22 01:37	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			12/18/22 01:37	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			12/18/22 01:37	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			12/18/22 01:37	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			12/18/22 01:37	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			12/18/22 01:37	1
Dichlorodifluoromethane	<0.000919 U		0.00100	0.000919 mg/L			12/18/22 01:37	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			12/18/22 01:37	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			12/18/22 01:37	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			12/18/22 01:37	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			12/18/22 01:37	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			12/18/22 01:37	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			12/18/22 01:37	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			12/18/22 01:37	1
Ethylbenzene	0.00680		0.00100	0.000411 mg/L			12/18/22 01:37	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			12/18/22 01:37	1
Isopropylbenzene	0.00329		0.00100	0.000613 mg/L			12/18/22 01:37	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			12/18/22 01:37	1
m,p-Xylenes	0.0279		0.0100	0.00124 mg/L			12/18/22 01:37	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			12/18/22 01:37	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			12/18/22 01:37	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			12/18/22 01:37	1
N-Propylbenzene	0.00151		0.00100	0.000498 mg/L			12/18/22 01:37	1
o-Xylene	0.00446		0.00100	0.000551 mg/L			12/18/22 01:37	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			12/18/22 01:37	1
sec-Butylbenzene	0.000643 J		0.00100	0.000468 mg/L			12/18/22 01:37	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			12/18/22 01:37	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			12/18/22 01:37	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			12/18/22 01:37	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			12/18/22 01:37	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			12/18/22 01:37	1
Toluene	0.0143		0.00100	0.000475 mg/L			12/18/22 01:37	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			12/18/22 01:37	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-22811-1

Date Collected: 12/15/22 10:40

Matrix: Water

Date Received: 12/15/22 15:20

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			12/18/22 01:37	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/18/22 01:37	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/18/22 01:37	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/18/22 01:37	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/18/22 01:37	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/18/22 01:37	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/18/22 01:37	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/18/22 01:37	1
1,2,4-Trimethylbenzene	0.00637		0.00100	0.000417 mg/L			12/18/22 01:37	1
1,3,5-Trimethylbenzene	0.00213		0.00100	0.000456 mg/L			12/18/22 01:37	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/18/22 01:37	1
Xylenes, Total	0.0324		0.0100	0.00124 mg/L			12/18/22 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 124		12/18/22 01:37	1
Dibromofluoromethane (Surr)	95		75 - 131		12/18/22 01:37	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		12/18/22 01:37	1
Toluene-d8 (Surr)	101		80 - 117		12/18/22 01:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.311	J	0.500	0.0711 mg/L			12/16/22 18:52	1
Nitrate as N	0.137	B	0.100	0.0391 mg/L			12/16/22 18:52	1
Chloride	211		0.500	0.200 mg/L			12/16/22 18:52	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/16/22 18:52	1
Fluoride	0.628		0.500	0.100 mg/L			12/16/22 18:52	1
Sulfate	40.5		0.500	0.109 mg/L			12/16/22 18:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	254		10.0	5.76 mg/L		12/18/22 12:00	12/19/22 13:42	50
Magnesium	48.3		0.200	0.0428 mg/L		12/18/22 12:00	12/19/22 13:13	1
Potassium	4.05		0.500	0.0914 mg/L		12/18/22 12:00	12/19/22 13:13	1
Sodium	76.3		0.500	0.152 mg/L		12/18/22 12:00	12/19/22 13:13	1
SiO2	62.1		1.07	0.471 mg/L		12/18/22 12:00	12/19/22 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	6.29			%			12/20/22 09:30	1
Alkalinity (SM 2320B)	440		4.00	4.00 mg/L			12/19/22 16:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	440		4.00	4.00 mg/L			12/19/22 16:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/19/22 16:29	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/19/22 16:29	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/19/22 16:29	1
Total Dissolved Solids (SM 2540C)	956		10.0	10.0 mg/L			12/19/22 17:19	1
pH (SM 4500 H+ B)	6.3	HF		SU			12/16/22 15:55	1
Temperature (SM 4500 H+ B)	16.2	HF		Degrees C			12/16/22 15:55	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-22811-1
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)
880-22811-1	Levey Well	92	95	111	101
LCS 860-82378/3	Lab Control Sample	97	97	105	97
LCSD 860-82378/4	Lab Control Sample Dup	100	97	107	95
MB 860-82378/11	Method Blank	98	96	111	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: 880-22811-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-82378/11

Matrix: Water

Analysis Batch: 82378

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			12/18/22 00:14	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/18/22 00:14	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/18/22 00:14	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/18/22 00:14	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/18/22 00:14	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/18/22 00:14	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/18/22 00:14	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/18/22 00:14	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/18/22 00:14	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/18/22 00:14	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/18/22 00:14	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/18/22 00:14	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/18/22 00:14	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/18/22 00:14	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/18/22 00:14	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/18/22 00:14	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/18/22 00:14	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/18/22 00:14	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/18/22 00:14	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/18/22 00:14	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/18/22 00:14	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/18/22 00:14	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/18/22 00:14	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/18/22 00:14	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/18/22 00:14	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/18/22 00:14	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/18/22 00:14	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/18/22 00:14	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/18/22 00:14	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/18/22 00:14	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/18/22 00:14	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/18/22 00:14	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/18/22 00:14	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/18/22 00:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/18/22 00:14	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/18/22 00:14	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/18/22 00:14	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/18/22 00:14	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/18/22 00:14	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/18/22 00:14	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/18/22 00:14	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/18/22 00:14	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/18/22 00:14	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/18/22 00:14	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/18/22 00:14	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/18/22 00:14	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/18/22 00:14	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/18/22 00:14	1

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QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-82378/11

Matrix: Water

Analysis Batch: 82378

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			12/18/22 00:14	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/18/22 00:14	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/18/22 00:14	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/18/22 00:14	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/18/22 00:14	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/18/22 00:14	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/18/22 00:14	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/18/22 00:14	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/18/22 00:14	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/18/22 00:14	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/18/22 00:14	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/18/22 00:14	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/18/22 00:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		12/18/22 00:14	1
Dibromofluoromethane (Surr)	96		75 - 131		12/18/22 00:14	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		12/18/22 00:14	1
Toluene-d8 (Surr)	99		80 - 117		12/18/22 00:14	1

Lab Sample ID: LCS 860-82378/3

Matrix: Water

Analysis Batch: 82378

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	0.04315		mg/L		86	75 - 125
Bromobenzene	0.0500	0.04587		mg/L		92	75 - 125
Bromochloromethane	0.0500	0.04528		mg/L		91	60 - 140
Bromodichloromethane	0.0500	0.04836		mg/L		97	75 - 125
Bromoform	0.0500	0.05303		mg/L		106	70 - 130
Bromomethane	0.0500	0.05019		mg/L		100	60 - 140
2-Butanone	0.250	0.2177		mg/L		87	60 - 140
Carbon tetrachloride	0.0500	0.04806		mg/L		96	70 - 130
Chlorobenzene	0.0500	0.04623		mg/L		92	65 - 135
Chloroethane	0.0500	0.04774		mg/L		95	60 - 140
Chloroform	0.0500	0.04561		mg/L		91	70 - 121
Chloromethane	0.0500	0.04178		mg/L		84	60 - 140
2-Chlorotoluene	0.0500	0.04460		mg/L		89	73 - 125
4-Chlorotoluene	0.0500	0.04501		mg/L		90	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04066		mg/L		81	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04525		mg/L		91	74 - 125
Dibromochloromethane	0.0500	0.04999		mg/L		100	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05168		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.04635		mg/L		93	73 - 125
1,2-Dichlorobenzene	0.0500	0.04601		mg/L		92	75 - 125
1,3-Dichlorobenzene	0.0500	0.04575		mg/L		91	75 - 125
1,4-Dichlorobenzene	0.0500	0.04541		mg/L		91	75 - 125
Dichlorodifluoromethane	0.0500	0.04538		mg/L		91	70 - 130

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QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-82378/3

Matrix: Water

Analysis Batch: 82378

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	0.04117		mg/L		82	70 - 130
1,2-Dichloroethane	0.0500	0.05022		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.04254		mg/L		85	50 - 150
1,2-Dichloropropane	0.0500	0.04103		mg/L		82	74 - 125
1,3-Dichloropropane	0.0500	0.04317		mg/L		86	75 - 125
2,2-Dichloropropane	0.0500	0.04246		mg/L		85	75 - 125
1,1-Dichloropropene	0.0500	0.04181		mg/L		84	75 - 125
Ethylbenzene	0.0500	0.04629		mg/L		93	75 - 125
Hexachlorobutadiene	0.0500	0.04802		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04832		mg/L		97	75 - 125
Methylene Chloride	0.0500	0.04144		mg/L		83	75 - 125
m,p-Xylenes	0.0500	0.04649		mg/L		93	75 - 125
MTBE	0.0500	0.04561		mg/L		91	65 - 135
Naphthalene	0.0500	0.05022		mg/L		100	70 - 130
n-Butylbenzene	0.0500	0.04476		mg/L		90	75 - 125
N-Propylbenzene	0.0500	0.04345		mg/L		87	75 - 125
o-Xylene	0.0500	0.04774		mg/L		95	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04681		mg/L		94	75 - 125
sec-Butylbenzene	0.0500	0.04498		mg/L		90	75 - 125
Styrene	0.0500	0.04844		mg/L		97	75 - 125
tert-Butylbenzene	0.0500	0.04606		mg/L		92	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05026		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.03891		mg/L		78	74 - 125
Tetrachloroethene	0.0500	0.04835		mg/L		97	71 - 125
Toluene	0.0500	0.04441		mg/L		89	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04284		mg/L		86	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04580		mg/L		92	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05181		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04858		mg/L		97	75 - 135
1,1,1-Trichloroethane	0.0500	0.04601		mg/L		92	70 - 130
1,1,2-Trichloroethane	0.0500	0.04428		mg/L		89	70 - 130
Trichloroethene	0.0500	0.04957		mg/L		99	75 - 135
Trichlorofluoromethane	0.0500	0.05833		mg/L		117	60 - 140
1,2,3-Trichloropropane	0.0500	0.03982		mg/L		80	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04716		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04648		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04632		mg/L		93	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	97		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-82378/4

Matrix: Water

Analysis Batch: 82378

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	0.04251		mg/L		85	75 - 125	2	25
Bromobenzene	0.0500	0.04627		mg/L		93	75 - 125	1	25
Bromochloromethane	0.0500	0.04514		mg/L		90	60 - 140	0	25
Bromodichloromethane	0.0500	0.04855		mg/L		97	75 - 125	0	25
Bromoform	0.0500	0.05353		mg/L		107	70 - 130	1	25
Bromomethane	0.0500	0.05002		mg/L		100	60 - 140	0	25
2-Butanone	0.250	0.2286		mg/L		91	60 - 140	5	25
Carbon tetrachloride	0.0500	0.04684		mg/L		94	70 - 130	3	25
Chlorobenzene	0.0500	0.04481		mg/L		90	65 - 135	3	25
Chloroethane	0.0500	0.04638		mg/L		93	60 - 140	3	25
Chloroform	0.0500	0.04515		mg/L		90	70 - 121	1	25
Chloromethane	0.0500	0.04109		mg/L		82	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04450		mg/L		89	73 - 125	0	25
4-Chlorotoluene	0.0500	0.04455		mg/L		89	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04095		mg/L		82	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04530		mg/L		91	74 - 125	0	25
Dibromochloromethane	0.0500	0.05052		mg/L		101	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05427		mg/L		109	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04712		mg/L		94	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04799		mg/L		96	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04645		mg/L		93	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04593		mg/L		92	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04073		mg/L		81	70 - 130	11	25
1,1-Dichloroethane	0.0500	0.04186		mg/L		84	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05053		mg/L		101	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04169		mg/L		83	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04082		mg/L		82	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04412		mg/L		88	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04182		mg/L		84	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04031		mg/L		81	75 - 125	4	25
Ethylbenzene	0.0500	0.04475		mg/L		89	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.04998		mg/L		100	75 - 125	4	25
Isopropylbenzene	0.0500	0.04722		mg/L		94	75 - 125	2	25
Methylene Chloride	0.0500	0.04159		mg/L		83	75 - 125	0	25
m,p-Xylenes	0.0500	0.04591		mg/L		92	75 - 125	1	25
MTBE	0.0500	0.04768		mg/L		95	65 - 135	4	25
Naphthalene	0.0500	0.05513		mg/L		110	70 - 130	9	25
n-Butylbenzene	0.0500	0.04523		mg/L		90	75 - 125	1	25
N-Propylbenzene	0.0500	0.04445		mg/L		89	75 - 125	2	25
o-Xylene	0.0500	0.04639		mg/L		93	75 - 125	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04785		mg/L		96	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04686		mg/L		94	75 - 125	4	25
Styrene	0.0500	0.04784		mg/L		96	75 - 125	1	25
tert-Butylbenzene	0.0500	0.04659		mg/L		93	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04844		mg/L		97	72 - 125	4	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04063		mg/L		81	74 - 125	4	25
Tetrachloroethene	0.0500	0.04668		mg/L		93	71 - 125	4	25
Toluene	0.0500	0.04229		mg/L		85	70 - 130	5	25

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QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-82378/4

Matrix: Water

Analysis Batch: 82378

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	0.04335		mg/L		87	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.04652		mg/L		93	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05567		mg/L		111	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05078		mg/L		102	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.04592		mg/L		92	70 - 130	0	25
1,1,2-Trichloroethane	0.0500	0.04408		mg/L		88	70 - 130	0	25
Trichloroethene	0.0500	0.04795		mg/L		96	75 - 135	3	25
Trichlorofluoromethane	0.0500	0.05278		mg/L		106	60 - 140	10	25
1,2,3-Trichloropropane	0.0500	0.04315		mg/L		86	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.04776		mg/L		96	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.04703		mg/L		94	60 - 140	1	25
Vinyl chloride	0.0500	0.04535		mg/L		91	60 - 140	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	107		63 - 144
Toluene-d8 (Surr)	95		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-82271/3

Matrix: Water

Analysis Batch: 82271

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			12/16/22 14:33	1
Chloride	<0.200	U	0.500	0.200 mg/L			12/16/22 14:33	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/16/22 14:33	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/16/22 14:33	1

Lab Sample ID: LCS 860-82271/4

Matrix: Water

Analysis Batch: 82271

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	10.45		mg/L		104	90 - 110
Chloride	10.0	9.887		mg/L		99	90 - 110
Fluoride	10.0	10.61		mg/L		106	90 - 110
Sulfate	10.0	9.714		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-82271/5

Matrix: Water

Analysis Batch: 82271

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	10.37		mg/L		104	90 - 110	1	20
Chloride	10.0	9.832		mg/L		98	90 - 110	1	20
Fluoride	10.0	10.54		mg/L		105	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-82271/5

Matrix: Water

Analysis Batch: 82271

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	9.617		mg/L		96	90 - 110	1	20

Lab Sample ID: MB 860-82272/3

Matrix: Water

Analysis Batch: 82272

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.05943	J	0.100	0.0391 mg/L			12/16/22 14:33	1
Nitrite as N	0.03561	J	0.100	0.0293 mg/L			12/16/22 14:33	1

Lab Sample ID: LCS 860-82272/4

Matrix: Water

Analysis Batch: 82272

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	9.872		mg/L		99	80 - 120
Nitrite as N	5.00	5.159		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-82272/5

Matrix: Water

Analysis Batch: 82272

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	9.800		mg/L		98	80 - 120	1	20
Nitrite as N	5.00	5.110		mg/L		102	80 - 120	1	20

Lab Sample ID: LLCS 860-82272/6

Matrix: Water

Analysis Batch: 82272

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	0.1249		mg/L		125	50 - 150
Nitrite as N	0.100	0.1004		mg/L		100	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-82415/1-A

Matrix: Water

Analysis Batch: 82619

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 82415

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		12/18/22 12:00	12/19/22 12:34	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		12/18/22 12:00	12/19/22 12:34	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		12/18/22 12:00	12/19/22 12:34	1
Sodium	<0.152	U	0.500	0.152 mg/L		12/18/22 12:00	12/19/22 12:34	1
SiO2	<0.471	U	1.07	0.471 mg/L		12/18/22 12:00	12/19/22 12:34	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-82415/2-A

Matrix: Water

Analysis Batch: 82619

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 82415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	25.0	25.90		mg/L		104	85 - 115	
Magnesium	25.0	25.20		mg/L		101	85 - 115	
Potassium	10.0	10.00		mg/L		100	85 - 115	
Sodium	25.0	24.80		mg/L		99	85 - 115	
SiO2	21.4	21.25		mg/L		99	85 - 115	

Lab Sample ID: LCSD 860-82415/3-A

Matrix: Water

Analysis Batch: 82619

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 82415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Calcium	25.0	25.90		mg/L		104	85 - 115	0	20	
Magnesium	25.0	25.10		mg/L		100	85 - 115	0	20	
Potassium	10.0	10.00		mg/L		100	85 - 115	0	20	
Sodium	25.0	24.60		mg/L		98	85 - 115	1	20	
SiO2	21.4	21.25		mg/L		99	85 - 115	0	20	

Lab Sample ID: LLCS 860-82415/4-A

Matrix: Water

Analysis Batch: 82619

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 82415

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	0.200	0.2410		mg/L		121	50 - 150	
Magnesium	0.200	0.2390		mg/L		120	50 - 150	
Potassium	0.500	0.5920		mg/L		118	50 - 150	
Sodium	0.500	0.4120	J	mg/L		82	50 - 150	
SiO2	1.07	1.198		mg/L		112	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-82640/3

Matrix: Water

Analysis Batch: 82640

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			12/19/22 13:36	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/19/22 13:36	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/19/22 13:36	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			12/19/22 13:36	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			12/19/22 13:36	1

Lab Sample ID: LCS 860-82640/4

Matrix: Water

Analysis Batch: 82640

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Alkalinity	250	260.8		mg/L		104	85 - 115	

Eurofins Midland

QC Sample Results

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

Job ID: 880-22811-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-82640/5

Matrix: Water

Analysis Batch: 82640

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	257.9		mg/L		103	85 - 115	1	20

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

Lab Sample ID: MB 860-82628/1

Matrix: Water

Analysis Batch: 82628

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			12/19/22 17:19	1

Lab Sample ID: LCS 860-82628/2

Matrix: Water

Analysis Batch: 82628

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	988.0		mg/L		99	80 - 120	

Lab Sample ID: LCSD 860-82628/3

Matrix: Water

Analysis Batch: 82628

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	1003		mg/L		100	80 - 120	2	10

Lab Sample ID: LLCS 860-82628/4

Matrix: Water

Analysis Batch: 82628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Total Dissolved Solids	5.00	<5.00	U	mg/L		70	50 - 150	

Lab Sample ID: 880-22811-1 DU

Matrix: Water

Analysis Batch: 82628

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	956		958.0		mg/L		0.2	10

QC Association Summary

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

Job ID: 880-22811-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 82378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	8260C	
MB 860-82378/11	Method Blank	Total/NA	Water	8260C	
LCS 860-82378/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-82378/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 82271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	300.0	
MB 860-82271/3	Method Blank	Total/NA	Water	300.0	
LCS 860-82271/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-82271/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 82272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	300.0	
MB 860-82272/3	Method Blank	Total/NA	Water	300.0	
LCS 860-82272/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-82272/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-82272/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 82415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-82415/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-82415/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-82415/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-82415/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 82619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	82415
880-22811-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	82415
MB 860-82415/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	82415
LCS 860-82415/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	82415
LCSD 860-82415/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	82415
LLCS 860-82415/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	82415

General Chemistry

Analysis Batch: 82307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 82628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-82628/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-82628/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-22811-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 82628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-82628/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-82628/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-22811-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 82640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-82640/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-82640/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-82640/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 82691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22811-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-22811-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-22811-1
Date Collected: 12/15/22 10:40 Matrix: Water
Date Received: 12/15/22 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	82378	NA	EET HOU	12/18/22 01:37
Total/NA	Analysis	300.0		1	82271	RBNS	EET HOU	12/16/22 18:52
Total/NA	Analysis	300.0		1	82272	RBNS	EET HOU	12/16/22 18:52
Total Recoverable	Prep	200.7			82415	MD	EET HOU	12/18/22 12:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	82619	JDM	EET HOU	12/19/22 13:13
Total Recoverable	Prep	200.7			82415	MD	EET HOU	12/18/22 12:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	82619	JDM	EET HOU	12/19/22 13:42
Total/NA	Analysis	SM 1030E		1	82691	SC	EET HOU	12/20/22 09:30
Total/NA	Analysis	SM 2320B		1	82640	TL	EET HOU	12/19/22 16:29
Total/NA	Analysis	SM 2540C		1	82628	YGG	EET HOU	12/19/22 17:19
Total/NA	Analysis	SM 4500 H+ B		1	82307	TL	EET HOU	12/16/22 15:55

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: 880-22811-1
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	T104704215-22-48	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: 880-22811-1
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: 880-22811-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22811-1	Levey Well	Water	12/15/22 10:40	12/15/22 15:20

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Chain of Custody

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

Work Order No: 22811

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Merrenfeld #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	☐ 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				
Project Number:	03B1417001		Routine	☐			
P.O. Number:	03B1417001		Rush 24 hr				
Sampler's Name:	Shane Diller		Due Date				
SAMPLE RECEIPT							
Temperature (°C):	141.1	Temp Blank:	Yes ☒ No ☐	Wet Ice: Yes ☒ No ☐			
Received Intact:	(Yes) No	Thermometer ID	444				
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-30				
Sample Custody Seals:	Yes No N/A	Total Containers:					
Sample Identification							
Levey Well	GW	Date Sampled	12-15-22	Time Sampled	1040	Depth	-
ANALYSIS REQUEST					Work Order Notes		
Number of Containers					TAT starts the day received by the lab, if received by 4:30pm		
VOCs					Sample Comments		
Anions: F, Cl, SO4, B					24hr		
Cations: Ca, K, Mg, Na, Si							
pH							
Alkalinity							
TDS							



880-2281 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

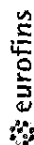
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility 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
		12/15/22			2
		1520			4
					6

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler		Lab PM: Kramer Jessica		Carrier Tracking No(s):		COC No: 880-5950 1	
Client Contact		Phone:		E-Mail: Jessica.Kramer@eurofins.com		State of Origin: New Mexico		Page: Page 1 of 1	
Shipping/Receiving		Company: Eurofins Environment Testing South Central		Address: 4145 Greenbriar Dr		City: Stafford		State: TX	
City: Stafford		State: TX		Zip: 77477		Phone: 281-240-4200(Tel)		Email:	
Project Name: Levey Well Hobbs, NM		Project #: 03B1417001		Site: SSOW#		Due Date Requested: 12/19/2022		TAT Requested (days):	
Sample Identification		Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Levey Well (880-22811 1)		12/15/22		10:40 Mountain		Water		Matrix (W=water, S=solid, O=oil, D=diesel, A=air)	
Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260C/6030C (MOD) Full List VOCs		200.7/200.7 P TR (MOD) Custom List		300.0 ORGM 20D Br Cl, F, SO4	
300.0 ORGM 20D Br Cl, F, SO4		300.0 ORGM 20D Br Cl, F, SO4		300.0 ORGM 20D Br Cl, F, SO4		SM4500_H+/pH		2540C_Calc'd TDS	
2220B Alkalinity		Cation Anion (MDI) Copy Analytes		Total Number of Containers		Special Instructions/Note:			
Analysis Requested		Preservation Codes:		A HCL		M Hexane			
B NaOH		N None		C Zn Acetate		O AsNaO2			
D Nitric Acid		P Na2O4S		E NaHSO4		Q Na2SO3			
F MeOH		R Na2SO3		G Amchlor		S H2SO4			
H Ascorbic Acid		T TSP Dodecahydrate		I Ice		U Acetone			
J DI Water		V MCAA		K EDTA		W pH 4-5			
L EDTA		Y Trizma		Z other (specify)					
Other:									
Possible Hazard Identification		Unconfirmed		Deliverable Requested: I II III IV Other (specify)		Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: [Signature]		Date: 12/16/2022		Relinquished by: [Signature]		Date: 12/16/2022		Relinquished by: [Signature]	
Relinquished by: [Signature]		Date: 12/16/2022		Relinquished by: [Signature]		Date: 12/16/2022		Relinquished by: [Signature]	
Custody Seals Intact: Yes No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: Temp: 1.2 IR ID HOU-343		C/F: +0.3		Corrected Temp: 1.5	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22811-1

SDG Number: Hobbs NM

Login Number: 22811

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: 880-22811-1

SDG Number: Hobbs NM

Login Number: 22811

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/16/22 12:30 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/30/2022 3:53:04 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

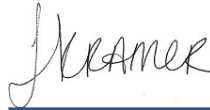
JOB NUMBER

880-23015-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/30/2022 3:53:04 PM

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

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

Laboratory Job ID: 880-23015-1

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Definitions/Glossary

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

Job ID: 880-23015-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

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

Job ID: 880-23015-1

Glossary (Continued)

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

Job ID: 880-23015-1

Job ID: 880-23015-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-23015-1

Receipt

The samples were received on 12/21/2022 3:16 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 3.8°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-83199 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-83200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is 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: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-23015-1

Date Collected: 12/21/22 12:10

Matrix: Water

Date Received: 12/21/22 15:16

Method: SW846 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			12/26/22 15:21	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/26/22 15:21	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/26/22 15:21	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/26/22 15:21	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/26/22 15:21	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/26/22 15:21	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/26/22 15:21	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/26/22 15:21	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/26/22 15:21	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/26/22 15:21	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/26/22 15:21	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/26/22 15:21	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/26/22 15:21	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/26/22 15:21	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/26/22 15:21	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/26/22 15:21	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/26/22 15:21	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:21	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/26/22 15:21	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/26/22 15:21	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:21	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:21	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:21	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/26/22 15:21	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/26/22 15:21	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/26/22 15:21	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/26/22 15:21	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/26/22 15:21	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/26/22 15:21	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/26/22 15:21	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/26/22 15:21	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/26/22 15:21	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/26/22 15:21	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/26/22 15:21	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/26/22 15:21	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/26/22 15:21	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/26/22 15:21	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:21	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/26/22 15:21	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/26/22 15:21	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:21	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/26/22 15:21	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/26/22 15:21	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/26/22 15:21	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:21	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/26/22 15:21	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/26/22 15:21	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/26/22 15:21	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/26/22 15:21	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-23015-1

Date Collected: 12/21/22 12:10

Matrix: Water

Date Received: 12/21/22 15:16

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			12/26/22 15:21	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/26/22 15:21	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/26/22 15:21	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/26/22 15:21	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/26/22 15:21	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/26/22 15:21	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/26/22 15:21	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/26/22 15:21	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/26/22 15:21	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/26/22 15:21	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/26/22 15:21	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/26/22 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124		12/26/22 15:21	1
Dibromofluoromethane (Surr)	101		75 - 131		12/26/22 15:21	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		12/26/22 15:21	1
Toluene-d8 (Surr)	104		80 - 117		12/26/22 15:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.890	U	4.50	0.890 mg/L			12/29/22 22:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.890	U	4.50	0.890 mg/L		12/28/22 15:43	12/29/22 13:09	1
Diesel Range Organics (Over C10-C28)	<0.890	U	4.50	0.890 mg/L		12/28/22 15:43	12/29/22 13:09	1
Oil Range Organics (Over C28-C36)	<0.859	U	4.50	0.859 mg/L		12/28/22 15:43	12/29/22 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 135	12/28/22 15:43	12/29/22 13:09	1
o-Terphenyl	106		70 - 135	12/28/22 15:43	12/29/22 13:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		0.500	0.200 mg/L			12/22/22 22:34	1
Nitrate as N	0.0802	J	0.100	0.0391 mg/L			12/22/22 22:34	1
Fluoride	0.676		0.500	0.100 mg/L			12/22/22 22:34	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			12/22/22 22:34	1
Sulfate	43.6		0.500	0.109 mg/L			12/22/22 22:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	377		4.00	4.00 mg/L			12/27/22 14:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	377		4.00	4.00 mg/L			12/27/22 14:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/27/22 14:48	1
Carbon dioxide (SM 4500 CO2 D)	370			mg/L			12/28/22 09:54	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-23015-1

Client Sample ID: MW-1

Lab Sample ID: 880-23015-1

Date Collected: 12/21/22 12:10

Matrix: Water

Date Received: 12/21/22 15:16

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	37.8			mg/L			12/28/22 09:54	1
pH (SM 4500 H+ B)	7.3	HF		SU			12/27/22 12:51	1
Temperature (SM 4500 H+ B)	15.8	HF		Degrees C			12/27/22 12:51	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			12/28/22 18:07	1

Client Sample ID: MW-2

Lab Sample ID: 880-23015-2

Date Collected: 12/21/22 12:55

Matrix: Water

Date Received: 12/21/22 15:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0139		0.00100	0.000533 mg/L			12/26/22 15:40	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/26/22 15:40	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/26/22 15:40	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/26/22 15:40	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/26/22 15:40	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/26/22 15:40	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/26/22 15:40	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/26/22 15:40	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/26/22 15:40	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/26/22 15:40	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/26/22 15:40	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/26/22 15:40	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/26/22 15:40	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/26/22 15:40	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/26/22 15:40	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/26/22 15:40	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/26/22 15:40	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:40	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/26/22 15:40	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/26/22 15:40	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:40	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:40	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:40	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/26/22 15:40	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/26/22 15:40	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/26/22 15:40	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/26/22 15:40	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/26/22 15:40	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/26/22 15:40	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/26/22 15:40	1
Ethylbenzene	0.0150		0.00100	0.000411 mg/L			12/26/22 15:40	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/26/22 15:40	1
Isopropylbenzene	0.00801		0.00100	0.000613 mg/L			12/26/22 15:40	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/26/22 15:40	1
m,p-Xylenes	0.0679		0.0100	0.00124 mg/L			12/26/22 15:40	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/26/22 15:40	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/26/22 15:40	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:40	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-23015-2

Date Collected: 12/21/22 12:55

Matrix: Water

Date Received: 12/21/22 15:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00229		0.00100	0.000498 mg/L			12/26/22 15:40	1
o-Xylene	0.00894		0.00100	0.000551 mg/L			12/26/22 15:40	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:40	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/26/22 15:40	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/26/22 15:40	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/26/22 15:40	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:40	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/26/22 15:40	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/26/22 15:40	1
Toluene	0.00276		0.00100	0.000475 mg/L			12/26/22 15:40	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/26/22 15:40	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:40	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/26/22 15:40	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/26/22 15:40	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/26/22 15:40	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/26/22 15:40	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/26/22 15:40	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/26/22 15:40	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/26/22 15:40	1
1,2,4-Trimethylbenzene	0.0184		0.00100	0.000417 mg/L			12/26/22 15:40	1
1,3,5-Trimethylbenzene	0.00481		0.00100	0.000456 mg/L			12/26/22 15:40	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/26/22 15:40	1
Xylenes, Total	0.0768		0.0100	0.00124 mg/L			12/26/22 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		12/26/22 15:40	1
Dibromofluoromethane (Surr)	100		75 - 131		12/26/22 15:40	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		12/26/22 15:40	1
Toluene-d8 (Surr)	99		80 - 117		12/26/22 15:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.11	J	4.57	0.904 mg/L			12/29/22 22:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.11	J	4.57	0.904 mg/L		12/28/22 15:43	12/29/22 15:51	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904 mg/L		12/28/22 15:43	12/29/22 15:51	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872 mg/L		12/28/22 15:43	12/29/22 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135			12/28/22 15:43	12/29/22 15:51	1
o-Terphenyl	99		70 - 135			12/28/22 15:43	12/29/22 15:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.8		0.500	0.200 mg/L			12/22/22 23:10	1
Nitrate as N	0.252		0.100	0.0391 mg/L			12/22/22 23:10	1
Fluoride	0.212	J	0.500	0.100 mg/L			12/22/22 23:10	1

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Client Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-23015-2

Date Collected: 12/21/22 12:55

Matrix: Water

Date Received: 12/21/22 15:16

Method: MCAWW 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	1.16		0.100	0.0293	mg/L			12/22/22 23:10	1
Sulfate	99.5		0.500	0.109	mg/L			12/22/22 23:10	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1270		4.00	4.00	mg/L			12/27/22 15:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1270		4.00	4.00	mg/L			12/27/22 15:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/27/22 15:04	1
Carbon dioxide (SM 4500 CO2 D)	2400				mg/L			12/28/22 09:54	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1280				mg/L			12/28/22 09:54	1
pH (SM 4500 H+ B)	6.3	HF			SU			12/27/22 12:52	1
Temperature (SM 4500 H+ B)	16.3	HF			Degrees C			12/27/22 12:52	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			12/28/22 18:07	1

Surrogate Summary

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

Job ID: 880-23015-1

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 (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
880-23015-1	MW-1	105	101	106	104
880-23015-1 MS	MW-1	101	98	98	97
880-23015-2	MW-2	100	100	102	99
LCS 860-83303/3	Lab Control Sample	98	99	98	99
LCSD 860-83303/4	Lab Control Sample Dup	97	97	97	98
MB 860-83303/9	Method Blank	106	100	101	106
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)
880-23015-1	MW-1	103	106
880-23015-2	MW-2	90	99
LCSD 860-83644/3-A	Lab Control Sample Dup	88	85
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-83303/9

Matrix: Water

Analysis Batch: 83303

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			12/26/22 15:02	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/26/22 15:02	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/26/22 15:02	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/26/22 15:02	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/26/22 15:02	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/26/22 15:02	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/26/22 15:02	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/26/22 15:02	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/26/22 15:02	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/26/22 15:02	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/26/22 15:02	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/26/22 15:02	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/26/22 15:02	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/26/22 15:02	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/26/22 15:02	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/26/22 15:02	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/26/22 15:02	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:02	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/26/22 15:02	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/26/22 15:02	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:02	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:02	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:02	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/26/22 15:02	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/26/22 15:02	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/26/22 15:02	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/26/22 15:02	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/26/22 15:02	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/26/22 15:02	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/26/22 15:02	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/26/22 15:02	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/26/22 15:02	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/26/22 15:02	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/26/22 15:02	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/26/22 15:02	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/26/22 15:02	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/26/22 15:02	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:02	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/26/22 15:02	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/26/22 15:02	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:02	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/26/22 15:02	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/26/22 15:02	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/26/22 15:02	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:02	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/26/22 15:02	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/26/22 15:02	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/26/22 15:02	1

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-83303/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 83303

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			12/26/22 15:02	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:02	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/26/22 15:02	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/26/22 15:02	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/26/22 15:02	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/26/22 15:02	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/26/22 15:02	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/26/22 15:02	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/26/22 15:02	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/26/22 15:02	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/26/22 15:02	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/26/22 15:02	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/26/22 15:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		12/26/22 15:02	1
Dibromofluoromethane (Surr)	100		75 - 131		12/26/22 15:02	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		12/26/22 15:02	1
Toluene-d8 (Surr)	106		80 - 117		12/26/22 15:02	1

Lab Sample ID: LCS 860-83303/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 83303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04916		mg/L		98	75 - 125
Bromobenzene	0.0500	0.05112		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.05024		mg/L		100	60 - 140
Bromodichloromethane	0.0500	0.05215		mg/L		104	75 - 125
Bromoform	0.0500	0.05249		mg/L		105	70 - 130
Bromomethane	0.0500	0.04276		mg/L		86	60 - 140
2-Butanone	0.250	0.2200		mg/L		88	60 - 140
Carbon tetrachloride	0.0500	0.05187		mg/L		104	70 - 130
Chlorobenzene	0.0500	0.05003		mg/L		100	65 - 135
Chloroethane	0.0500	0.04612		mg/L		92	60 - 140
Chloroform	0.0500	0.04914		mg/L		98	70 - 121
Chloromethane	0.0500	0.04847		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04980		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05030		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04929		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05106		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.05290		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04939		mg/L		99	59 - 125
1,2-Dibromoethane	0.0500	0.04877		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.05183		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05065		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05018		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.04408		mg/L		88	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-83303/3

Matrix: Water

Analysis Batch: 83303

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	0.04889		mg/L		98	70 - 130
1,2-Dichloroethane	0.0500	0.04770		mg/L		95	72 - 130
1,1-Dichloroethene	0.0500	0.04859		mg/L		97	50 - 150
1,2-Dichloropropane	0.0500	0.04887		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04920		mg/L		98	75 - 125
2,2-Dichloropropane	0.0500	0.05297		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.04959		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04936		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05253		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05121		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.04215		mg/L		84	75 - 125
m,p-Xylenes	0.0500	0.05028		mg/L		101	75 - 125
MTBE	0.0500	0.04780		mg/L		96	65 - 135
Naphthalene	0.0500	0.04901		mg/L		98	70 - 130
n-Butylbenzene	0.0500	0.05050		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.05006		mg/L		100	75 - 125
o-Xylene	0.0500	0.04987		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05115		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05012		mg/L		100	75 - 125
Styrene	0.0500	0.05142		mg/L		103	75 - 125
tert-Butylbenzene	0.0500	0.05173		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05129		mg/L		103	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04730		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.05296		mg/L		106	71 - 125
Toluene	0.0500	0.04948		mg/L		99	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05083		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05154		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05161		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05296		mg/L		106	75 - 135
1,1,1-Trichloroethane	0.0500	0.04844		mg/L		97	70 - 130
1,1,2-Trichloroethane	0.0500	0.04964		mg/L		99	70 - 130
Trichloroethene	0.0500	0.05121		mg/L		102	75 - 135
Trichlorofluoromethane	0.0500	0.05266		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04641		mg/L		93	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05147		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05001		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04824		mg/L		96	60 - 140

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

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-83303/4

Matrix: Water

Analysis Batch: 83303

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	0.04969		mg/L		99	75 - 125	1	25
Bromobenzene	0.0500	0.04898		mg/L		98	75 - 125	4	25
Bromochloromethane	0.0500	0.04803		mg/L		96	60 - 140	4	25
Bromodichloromethane	0.0500	0.05188		mg/L		104	75 - 125	1	25
Bromoform	0.0500	0.05250		mg/L		105	70 - 130	0	25
Bromomethane	0.0500	0.04172		mg/L		83	60 - 140	2	25
2-Butanone	0.250	0.2174		mg/L		87	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05318		mg/L		106	70 - 130	2	25
Chlorobenzene	0.0500	0.04905		mg/L		98	65 - 135	2	25
Chloroethane	0.0500	0.04788		mg/L		96	60 - 140	4	25
Chloroform	0.0500	0.04884		mg/L		98	70 - 121	1	25
Chloromethane	0.0500	0.04725		mg/L		94	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04838		mg/L		97	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04838		mg/L		97	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04884		mg/L		98	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05101		mg/L		102	74 - 125	0	25
Dibromochloromethane	0.0500	0.05133		mg/L		103	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04734		mg/L		95	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.04703		mg/L		94	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.04944		mg/L		99	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.04907		mg/L		98	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04849		mg/L		97	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04588		mg/L		92	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04857		mg/L		97	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.04837		mg/L		97	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05114		mg/L		102	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04883		mg/L		98	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04831		mg/L		97	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05258		mg/L		105	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04995		mg/L		100	75 - 125	1	25
Ethylbenzene	0.0500	0.04984		mg/L		100	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05347		mg/L		107	75 - 125	2	25
Isopropylbenzene	0.0500	0.05222		mg/L		104	75 - 125	2	25
Methylene Chloride	0.0500	0.04157		mg/L		83	75 - 125	1	25
m,p-Xylenes	0.0500	0.05044		mg/L		101	75 - 125	0	25
MTBE	0.0500	0.04722		mg/L		94	65 - 135	1	25
Naphthalene	0.0500	0.04831		mg/L		97	70 - 130	1	25
n-Butylbenzene	0.0500	0.05124		mg/L		102	75 - 125	1	25
N-Propylbenzene	0.0500	0.05023		mg/L		100	75 - 125	0	25
o-Xylene	0.0500	0.05042		mg/L		101	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05130		mg/L		103	75 - 125	0	25
sec-Butylbenzene	0.0500	0.05116		mg/L		102	75 - 125	2	25
Styrene	0.0500	0.05075		mg/L		101	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05147		mg/L		103	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05096		mg/L		102	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04516		mg/L		90	74 - 125	5	25
Tetrachloroethene	0.0500	0.05442		mg/L		109	71 - 125	3	25
Toluene	0.0500	0.04959		mg/L		99	70 - 130	0	25

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-83303/4

Matrix: Water

Analysis Batch: 83303

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05100		mg/L		102	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04934		mg/L		99	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05180		mg/L		104	75 - 137	0	25
1,2,4-Trichlorobenzene	0.0500	0.05235		mg/L		105	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.04922		mg/L		98	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04794		mg/L		96	70 - 130	3	25
Trichloroethene	0.0500	0.05247		mg/L		105	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05492		mg/L		110	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.04418		mg/L		88	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05020		mg/L		100	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04966		mg/L		99	60 - 140	1	25
Vinyl chloride	0.0500	0.05022		mg/L		100	60 - 140	4	25

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

Lab Sample ID: 880-23015-1 MS

Matrix: Water

Analysis Batch: 83303

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
Benzene	<0.000533	U	0.0500	0.04872		mg/L		97	66 - 142
Bromobenzene	<0.000665	U	0.0500	0.04785		mg/L		96	75 - 125
Bromochloromethane	<0.000657	U	0.0500	0.04802		mg/L		96	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.05089		mg/L		102	75 - 125
Bromoform	<0.000633	U	0.0500	0.05098		mg/L		102	75 - 125
Bromomethane	<0.00142	U	0.0500	0.04553		mg/L		91	60 - 140
2-Butanone	<0.00828	U	0.250	0.2109		mg/L		84	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.05154		mg/L		103	62 - 125
Chlorobenzene	<0.000530	U	0.0500	0.04763		mg/L		95	60 - 133
Chloroethane	<0.00198	U	0.0500	0.05366		mg/L		107	60 - 140
Chloroform	<0.000643	U	0.0500	0.04819		mg/L		96	70 - 130
Chloromethane	<0.00204	U	0.0500	0.04641		mg/L		93	60 - 140
2-Chlorotoluene	<0.00118	U	0.0500	0.04639		mg/L		93	73 - 125
4-Chlorotoluene	<0.000472	U	0.0500	0.04698		mg/L		94	74 - 125
cis-1,2-Dichloroethene	<0.000714	U	0.0500	0.04845		mg/L		97	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.05125		mg/L		103	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.04975		mg/L		100	73 - 125
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.0500	0.04476		mg/L		90	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.04638		mg/L		93	73 - 125
1,2-Dichlorobenzene	<0.000509	U	0.0500	0.04823		mg/L		96	75 - 125
1,3-Dichlorobenzene	<0.000513	U	0.0500	0.04680		mg/L		94	75 - 125
1,4-Dichlorobenzene	<0.000513	U	0.0500	0.04685		mg/L		94	75 - 125
Dichlorodifluoromethane	<0.000919	U	0.0500	0.04264		mg/L		85	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.04838		mg/L		97	72 - 125

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-23015-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 83303

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.000590	U	0.0500	0.04806		mg/L		96	68 - 127
1,1-Dichloroethene	<0.000738	U	0.0500	0.05014		mg/L		100	59 - 172
1,2-Dichloropropane	<0.000667	U	0.0500	0.04892		mg/L		98	74 - 125
1,3-Dichloropropane	<0.000514	U	0.0500	0.04767		mg/L		95	75 - 125
2,2-Dichloropropane	<0.000780	U	0.0500	0.05258		mg/L		105	75 - 125
1,1-Dichloropropene	<0.00160	U	0.0500	0.04891		mg/L		98	75 - 125
Ethylbenzene	<0.000411	U	0.0500	0.04746		mg/L		95	75 - 125
Hexachlorobutadiene	<0.00126	U	0.0500	0.05084		mg/L		102	75 - 125
Isopropylbenzene	<0.000613	U	0.0500	0.04935		mg/L		99	75 - 125
Methylene Chloride	<0.00173	U	0.0500	0.04189		mg/L		84	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04827		mg/L		97	75 - 125
MTBE	<0.00139	U	0.0500	0.04777		mg/L		96	65 - 135
Naphthalene	<0.00135	U	0.0500	0.04554		mg/L		91	70 - 130
n-Butylbenzene	<0.000644	U	0.0500	0.04754		mg/L		95	75 - 125
N-Propylbenzene	<0.000498	U	0.0500	0.04720		mg/L		94	75 - 125
o-Xylene	<0.000551	U	0.0500	0.04843		mg/L		97	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.0500	0.04728		mg/L		95	75 - 125
sec-Butylbenzene	<0.000468	U	0.0500	0.04679		mg/L		94	75 - 125
Styrene	<0.000655	U	0.0500	0.04856		mg/L		97	75 - 125
tert-Butylbenzene	<0.000442	U	0.0500	0.04831		mg/L		97	75 - 125
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.04955		mg/L		99	72 - 125
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.04496		mg/L		90	74 - 125
Tetrachloroethene	<0.000801	U	0.0500	0.05163		mg/L		103	71 - 125
Toluene	<0.000475	U	0.0500	0.04724		mg/L		94	59 - 139
trans-1,2-Dichloroethene	<0.000945	U	0.0500	0.05050		mg/L		101	75 - 125
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.04901		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	<0.00217	U	0.0500	0.04782		mg/L		96	75 - 137
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.04967		mg/L		99	75 - 135
1,1,1-Trichloroethane	<0.00169	U	0.0500	0.04777		mg/L		96	75 - 125
1,1,2-Trichloroethane	<0.000511	U	0.0500	0.04764		mg/L		95	75 - 127
Trichloroethene	<0.000791	U	0.0500	0.05100		mg/L		102	62 - 137
Trichlorofluoromethane	<0.000638	U	0.0500	0.05429		mg/L		109	60 - 140
1,2,3-Trichloropropane	<0.000490	U	0.0500	0.04357		mg/L		87	75 - 125
1,2,4-Trimethylbenzene	<0.000417	U	0.0500	0.04804		mg/L		96	75 - 125
1,3,5-Trimethylbenzene	<0.000456	U	0.0500	0.04682		mg/L		94	70 - 125
Vinyl chloride	<0.000638	U	0.0500	0.04915		mg/L		98	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		74 - 124						
Dibromofluoromethane (Surr)	98		75 - 131						
1,2-Dichloroethane-d4 (Surr)	98		63 - 144						
Toluene-d8 (Surr)	97		80 - 117						

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-83644/3-A

Matrix: Water

Analysis Batch: 83751

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	106.5		mg/L		107	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.9	89.55		mg/L		90	70 - 135	6	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	88		70 - 135						
o-Terphenyl	85		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-83199/38

Matrix: Water

Analysis Batch: 83199

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			12/22/22 19:13	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/22/22 19:13	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/22/22 19:13	1

Lab Sample ID: MB 860-83199/8

Matrix: Water

Analysis Batch: 83199

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2803	J	0.500	0.200 mg/L			12/22/22 11:20	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/22/22 11:20	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/22/22 11:20	1

Lab Sample ID: LCS 860-83199/39

Matrix: Water

Analysis Batch: 83199

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	9.693		mg/L		97	90 - 110
Fluoride	10.0	10.42		mg/L		104	90 - 110
Sulfate	10.0	9.101		mg/L		91	90 - 110

Lab Sample ID: LCSD 860-83199/40

Matrix: Water

Analysis Batch: 83199

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	9.643		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.37		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.027		mg/L		90	90 - 110	1	20

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-83199/12

Matrix: Water

Analysis Batch: 83199

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	0.5393		mg/L		108	50 - 150
Fluoride	0.500	0.4778	J	mg/L		96	50 - 150
Sulfate	0.500	0.4474	J	mg/L		89	50 - 150

Lab Sample ID: 880-23015-1 MS

Matrix: Water

Analysis Batch: 83199

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	84.4		10.0	91.87	4	mg/L		75	90 - 110
Fluoride	0.676		10.0	11.07		mg/L		104	90 - 110
Sulfate	43.6		10.0	52.99	4	mg/L		94	90 - 110

Lab Sample ID: 880-23015-1 MSD

Matrix: Water

Analysis Batch: 83199

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	84.4		10.0	90.45	4	mg/L		60	90 - 110	2	20
Fluoride	0.676		10.0	10.90		mg/L		102	90 - 110	2	20
Sulfate	43.6		10.0	52.19	4	mg/L		86	90 - 110	2	20

Lab Sample ID: MB 860-83200/38

Matrix: Water

Analysis Batch: 83200

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			12/22/22 19:13	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/22/22 19:13	1

Lab Sample ID: MB 860-83200/8

Matrix: Water

Analysis Batch: 83200

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			12/22/22 11:20	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/22/22 11:20	1

Lab Sample ID: LCS 860-83200/39

Matrix: Water

Analysis Batch: 83200

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	9.999		mg/L		100	80 - 120
Nitrite as N	5.00	4.794		mg/L		96	80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-83200/40

Matrix: Water

Analysis Batch: 83200

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	9.953		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	4.768		mg/L		95	80 - 120	1	20

Lab Sample ID: LLCS 860-83200/11

Matrix: Water

Analysis Batch: 83200

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
Nitrate as N	0.100	0.1107		mg/L		111	50 - 150		
Nitrite as N	0.100	0.05735	J	mg/L		57	50 - 150		

Lab Sample ID: 880-23015-1 MS

Matrix: Water

Analysis Batch: 83200

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	RPD	RPD Limit
Nitrate as N	0.0802	J	10.0	9.698		mg/L		96	80 - 120		
Nitrite as N	<0.0293	U F1	2.50	3.271	F1	mg/L		131	80 - 120		

Lab Sample ID: 880-23015-1 MSD

Matrix: Water

Analysis Batch: 83200

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	0.0802	J	10.0	9.533		mg/L		95	80 - 120	2	15
Nitrite as N	<0.0293	U F1	2.50	3.238	F1	mg/L		130	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-83471/3

Matrix: Water

Analysis Batch: 83471

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			12/27/22 11:18	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/27/22 11:18	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/27/22 11:18	1

Lab Sample ID: LCS 860-83471/4

Matrix: Water

Analysis Batch: 83471

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	259.0		mg/L		104	85 - 115		

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QC Sample Results

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-83471/5

Matrix: Water

Analysis Batch: 83471

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	262.4		mg/L		105	85 - 115	1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-83802/1

Matrix: Water

Analysis Batch: 83802

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			12/28/22 18:07	1

Lab Sample ID: LCS 860-83802/2

Matrix: Water

Analysis Batch: 83802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	51.4	46.00		mg/L		90	80 - 120

Lab Sample ID: LCSD 860-83802/3

Matrix: Water

Analysis Batch: 83802

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	51.4	46.00		mg/L		90	80 - 120	0	20

Lab Sample ID: 880-23015-1 MS

Matrix: Water

Analysis Batch: 83802

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.495	U	51.4	46.40		mg/L		90	80 - 120

Lab Sample ID: 880-23015-1 MSD

Matrix: Water

Analysis Batch: 83802

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.40		mg/L		90	80 - 120	0	20

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QC Association Summary

Client: Ensolum

Job ID: 880-23015-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 83303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	8260C	
880-23015-2	MW-2	Total/NA	Water	8260C	
MB 860-83303/9	Method Blank	Total/NA	Water	8260C	
LCS 860-83303/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-83303/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-23015-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	8015 NM	
880-23015-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 83644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-23015-2	MW-2	Total/NA	Water	8015NM Aq Prep	
LCSD 860-83644/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 83751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	8015B NM	83644
LCSD 860-83644/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	83644

Analysis Batch: 83756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-2	MW-2	Total/NA	Water	8015B NM	83644

HPLC/IC

Analysis Batch: 83199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	300.0	
880-23015-2	MW-2	Total/NA	Water	300.0	
MB 860-83199/38	Method Blank	Total/NA	Water	300.0	
MB 860-83199/8	Method Blank	Total/NA	Water	300.0	
LCS 860-83199/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-83199/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-83199/12	Lab Control Sample	Total/NA	Water	300.0	
880-23015-1 MS	MW-1	Total/NA	Water	300.0	
880-23015-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 83200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	300.0	
880-23015-2	MW-2	Total/NA	Water	300.0	
MB 860-83200/38	Method Blank	Total/NA	Water	300.0	
MB 860-83200/8	Method Blank	Total/NA	Water	300.0	
LCS 860-83200/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-83200/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-83200/11	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-23015-1

HPLC/IC (Continued)

Analysis Batch: 83200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1 MS	MW-1	Total/NA	Water	300.0	
880-23015-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 83436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-23015-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 83471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	SM 2320B	
880-23015-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-83471/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-83471/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-83471/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 83575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-23015-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 83802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23015-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-23015-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-83802/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-83802/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-83802/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-23015-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-23015-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-23015-1

Client Sample ID: MW-1

Date Collected: 12/21/22 12:10

Date Received: 12/21/22 15:16

Lab Sample ID: 880-23015-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	83303	NA	EET HOU	12/26/22 15:21
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	12/29/22 22:44
Total/NA	Prep	8015NM Aq Prep			83644	SAR	EET HOU	12/28/22 15:43
Total/NA	Analysis	8015B NM		1	83751	SAR	EET HOU	12/29/22 13:09
Total/NA	Analysis	300.0		1	83199	A1S	EET HOU	12/22/22 22:34
Total/NA	Analysis	300.0		1	83200	A1S	EET HOU	12/22/22 22:34
Total/NA	Analysis	SM 2320B		1	83471	TL	EET HOU	12/27/22 14:48
Total/NA	Analysis	SM 4500 CO2 D		1	83575	AA	EET HOU	12/28/22 09:54
Total/NA	Analysis	SM 4500 H+ B		1	83436	TL	EET HOU	12/27/22 12:51
Total/NA	Analysis	SM 4500 S2 F		1	83802	SCI	EET HOU	12/28/22 18:07

Client Sample ID: MW-2

Date Collected: 12/21/22 12:55

Date Received: 12/21/22 15:16

Lab Sample ID: 880-23015-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	83303	NA	EET HOU	12/26/22 15:40
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	12/29/22 22:44
Total/NA	Prep	8015NM Aq Prep			83644	SAR	EET HOU	12/28/22 15:43
Total/NA	Analysis	8015B NM		1	83756	SAR	EET HOU	12/29/22 15:51
Total/NA	Analysis	300.0		1	83199	A1S	EET HOU	12/22/22 23:10
Total/NA	Analysis	300.0		1	83200	A1S	EET HOU	12/22/22 23:10
Total/NA	Analysis	SM 2320B		1	83471	TL	EET HOU	12/27/22 15:04
Total/NA	Analysis	SM 4500 CO2 D		1	83575	AA	EET HOU	12/28/22 09:54
Total/NA	Analysis	SM 4500 H+ B		1	83436	TL	EET HOU	12/27/22 12:52
Total/NA	Analysis	SM 4500 S2 F		1	83802	SCI	EET HOU	12/28/22 18:07

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: 880-23015-1

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	T104704215-22-48	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: 880-23015-1

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: 880-23015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23015-1	MW-1	Water	12/21/22 12:10	12/21/22 15:16
880-23015-2	MW-2	Water	12/21/22 12:55	12/21/22 15:16

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Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)565-3443 Lubbock TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-575-392-1550) Hobbs NM (575-392-1550)

Work Order No: 23015

Chain of Custody

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

Work Order Comments
Program: UST/PST ☐ PRR ☐ 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																																									
P.O. Number:	03B1417002																																									
Sampler's Name:	Shane Diller																																									
<table border="1"> <tr> <th colspan="2">SAMPLE RECEIPT</th> <th>Temp Blank</th> <th>Yes</th> <th>No</th> <th>Wet Ice:</th> <th>Yes</th> <th>No</th> </tr> <tr> <td>Temperature (°C):</td> <td>41.3°C</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Received intact:</td> <td>Yes</td> <td>No</td> <td></td> <td></td> <td>Thermometer ID</td> <td>180</td> <td></td> </tr> <tr> <td>Cooler Custody Seals:</td> <td>Yes</td> <td>No</td> <td>N/A</td> <td></td> <td>Correction Factor:</td> <td>30</td> <td></td> </tr> <tr> <td>Sample Custody Seals:</td> <td>Yes</td> <td>No</td> <td>N/A</td> <td></td> <td>Total Containers:</td> <td></td> <td></td> </tr> </table>		SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice:	Yes	No	Temperature (°C):	41.3°C							Received intact:	Yes	No			Thermometer ID	180		Cooler Custody Seals:	Yes	No	N/A		Correction Factor:	30		Sample Custody Seals:	Yes	No	N/A		Total Containers:			ANALYSIS REQUEST
SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice:	Yes	No																																			
Temperature (°C):	41.3°C																																									
Received intact:	Yes	No			Thermometer ID	180																																				
Cooler Custody Seals:	Yes	No	N/A		Correction Factor:	30																																				
Sample Custody Seals:	Yes	No	N/A		Total Containers:																																					
Number of Containers																																										
Reduced Carbon Dioxide 4500 CO2 c																																										
Reduced Sulfide SW-846 #376.2																																										
SW-846 #8260																																										
SW-846 Method #8015																																										
SW-846 Method #846 300																																										
SW-846 Method 150.1																																										
TAT starts the day received by the lab if received by 4 30pm							Work Order Notes																																			

[illegible]

880-23015 Chain of Custody



Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		1631 / 245.1 / 7470 / 7471 Hg

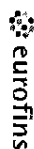
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility 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
		12/21/22			
		12/16			

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Test: 18

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-23015-1

Login Number: 23015

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: 880-23015-1

Login Number: 23015

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/22/22 02:03 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/30/2022 12:23:10 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-23016-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/30/2022 12:23:10 PM

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

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

Laboratory Job ID: 880-23016-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-23016-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 880-23016-1
SDG: Hobbs NM

Job ID: 880-23016-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-23016-1

Receipt

The sample was received on 12/21/2022 3:16 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 3.8°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-83199 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-83200 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

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

General Chemistry

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

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Client Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-23016-1

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 15:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00236		0.00100	0.000533	mg/L		12/26/22 15:59	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		12/26/22 15:59	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		12/26/22 15:59	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		12/26/22 15:59	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		12/26/22 15:59	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		12/26/22 15:59	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		12/26/22 15:59	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		12/26/22 15:59	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		12/26/22 15:59	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		12/26/22 15:59	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		12/26/22 15:59	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		12/26/22 15:59	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		12/26/22 15:59	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		12/26/22 15:59	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		12/26/22 15:59	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		12/26/22 15:59	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		12/26/22 15:59	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		12/26/22 15:59	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		12/26/22 15:59	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		12/26/22 15:59	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		12/26/22 15:59	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		12/26/22 15:59	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		12/26/22 15:59	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		12/26/22 15:59	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		12/26/22 15:59	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		12/26/22 15:59	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		12/26/22 15:59	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		12/26/22 15:59	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		12/26/22 15:59	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		12/26/22 15:59	1
Ethylbenzene	0.00811		0.00100	0.000411	mg/L		12/26/22 15:59	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		12/26/22 15:59	1
Isopropylbenzene	0.00425		0.00100	0.000613	mg/L		12/26/22 15:59	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		12/26/22 15:59	1
m,p-Xylenes	0.0332		0.0100	0.00124	mg/L		12/26/22 15:59	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		12/26/22 15:59	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		12/26/22 15:59	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		12/26/22 15:59	1
N-Propylbenzene	0.00204		0.00100	0.000498	mg/L		12/26/22 15:59	1
o-Xylene	0.00507		0.00100	0.000551	mg/L		12/26/22 15:59	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		12/26/22 15:59	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		12/26/22 15:59	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		12/26/22 15:59	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		12/26/22 15:59	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		12/26/22 15:59	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		12/26/22 15:59	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		12/26/22 15:59	1
Toluene	0.0176		0.00100	0.000475	mg/L		12/26/22 15:59	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		12/26/22 15:59	1

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Client Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 12/21/22 11:55
Date Received: 12/21/22 15:16

Lab Sample ID: 880-23016-1
Matrix: Water

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			12/26/22 15:59	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L			12/26/22 15:59	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			12/26/22 15:59	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			12/26/22 15:59	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			12/26/22 15:59	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			12/26/22 15:59	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L			12/26/22 15:59	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L			12/26/22 15:59	1
1,2,4-Trimethylbenzene	0.00891		0.00100	0.000417	mg/L			12/26/22 15:59	1
1,3,5-Trimethylbenzene	0.00275		0.00100	0.000456	mg/L			12/26/22 15:59	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			12/26/22 15:59	1
Xylenes, Total	0.0383		0.0100	0.00124	mg/L			12/26/22 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		74 - 124					12/26/22 15:59	1
Dibromofluoromethane (Surr)	98		75 - 131					12/26/22 15:59	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144					12/26/22 15:59	1
Toluene-d8 (Surr)	108		80 - 117					12/26/22 15:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.392	J	0.500	0.0711	mg/L			12/22/22 23:46	1
Nitrate as N	0.144		0.100	0.0391	mg/L			12/22/22 23:46	1
Chloride	214		0.500	0.200	mg/L			12/22/22 23:46	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			12/22/22 23:46	1
Fluoride	0.732		0.500	0.100	mg/L			12/22/22 23:46	1
Sulfate	44.5		0.500	0.109	mg/L			12/22/22 23:46	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	258		10.0	5.76	mg/L		12/26/22 10:45	12/27/22 11:10	50
Magnesium	49.1		0.200	0.0428	mg/L		12/26/22 10:45	12/27/22 10:52	1
Potassium	4.69		0.500	0.0914	mg/L		12/26/22 10:45	12/27/22 10:52	1
Sodium	80.4		0.500	0.152	mg/L		12/26/22 10:45	12/27/22 10:52	1
SiO2	61.0		1.07	0.471	mg/L		12/26/22 10:45	12/27/22 10:52	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-3.79				%			12/30/22 13:15	1
Alkalinity (SM 2320B)	656		4.00	4.00	mg/L			12/27/22 15:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	656		4.00	4.00	mg/L			12/27/22 15:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/27/22 15:15	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/27/22 15:15	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/27/22 15:15	1
Total Dissolved Solids (SM 2540C)	1130		10.0	10.0	mg/L			12/26/22 22:43	1
pH (SM 4500 H+ B)	6.5	HF			SU			12/27/22 12:55	1
Temperature (SM 4500 H+ B)	17.0	HF			Degrees C			12/27/22 12:55	1

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Surrogate Summary

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

Job ID: 880-23016-1
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)
880-23016-1	Levey Well	110	98	105	108
LCS 860-83303/3	Lab Control Sample	98	99	98	99
LCSD 860-83303/4	Lab Control Sample Dup	97	97	97	98
MB 860-83303/9	Method Blank	106	100	101	106
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: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-83303/9

Matrix: Water

Analysis Batch: 83303

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			12/26/22 15:02	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/26/22 15:02	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/26/22 15:02	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/26/22 15:02	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/26/22 15:02	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/26/22 15:02	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/26/22 15:02	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/26/22 15:02	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/26/22 15:02	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/26/22 15:02	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/26/22 15:02	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/26/22 15:02	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/26/22 15:02	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/26/22 15:02	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/26/22 15:02	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/26/22 15:02	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/26/22 15:02	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:02	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/26/22 15:02	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/26/22 15:02	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:02	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/26/22 15:02	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:02	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/26/22 15:02	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/26/22 15:02	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/26/22 15:02	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/26/22 15:02	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/26/22 15:02	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/26/22 15:02	1
1,1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/26/22 15:02	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/26/22 15:02	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/26/22 15:02	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/26/22 15:02	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/26/22 15:02	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/26/22 15:02	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/26/22 15:02	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/26/22 15:02	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:02	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/26/22 15:02	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/26/22 15:02	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/26/22 15:02	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/26/22 15:02	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/26/22 15:02	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/26/22 15:02	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/26/22 15:02	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/26/22 15:02	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/26/22 15:02	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/26/22 15:02	1

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-83303/9

Matrix: Water

Analysis Batch: 83303

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			12/26/22 15:02	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/26/22 15:02	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/26/22 15:02	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/26/22 15:02	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/26/22 15:02	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/26/22 15:02	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/26/22 15:02	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/26/22 15:02	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/26/22 15:02	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/26/22 15:02	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/26/22 15:02	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/26/22 15:02	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/26/22 15:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		12/26/22 15:02	1
Dibromofluoromethane (Surr)	100		75 - 131		12/26/22 15:02	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		12/26/22 15:02	1
Toluene-d8 (Surr)	106		80 - 117		12/26/22 15:02	1

Lab Sample ID: LCS 860-83303/3

Matrix: Water

Analysis Batch: 83303

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	0.04916		mg/L		98	75 - 125
Bromobenzene	0.0500	0.05112		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.05024		mg/L		100	60 - 140
Bromodichloromethane	0.0500	0.05215		mg/L		104	75 - 125
Bromoform	0.0500	0.05249		mg/L		105	70 - 130
Bromomethane	0.0500	0.04276		mg/L		86	60 - 140
2-Butanone	0.250	0.2200		mg/L		88	60 - 140
Carbon tetrachloride	0.0500	0.05187		mg/L		104	70 - 130
Chlorobenzene	0.0500	0.05003		mg/L		100	65 - 135
Chloroethane	0.0500	0.04612		mg/L		92	60 - 140
Chloroform	0.0500	0.04914		mg/L		98	70 - 121
Chloromethane	0.0500	0.04847		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04980		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05030		mg/L		101	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04929		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05106		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.05290		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04939		mg/L		99	59 - 125
1,2-Dibromoethane	0.0500	0.04877		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.05183		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05065		mg/L		101	75 - 125
1,4-Dichlorobenzene	0.0500	0.05018		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.04408		mg/L		88	70 - 130

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-83303/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 83303							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04889		mg/L		98	70 - 130
1,2-Dichloroethane	0.0500	0.04770		mg/L		95	72 - 130
1,1-Dichloroethene	0.0500	0.04859		mg/L		97	50 - 150
1,2-Dichloropropane	0.0500	0.04887		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04920		mg/L		98	75 - 125
2,2-Dichloropropane	0.0500	0.05297		mg/L		106	75 - 125
1,1-Dichloropropene	0.0500	0.04959		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04936		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05253		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05121		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.04215		mg/L		84	75 - 125
m,p-Xylenes	0.0500	0.05028		mg/L		101	75 - 125
MTBE	0.0500	0.04780		mg/L		96	65 - 135
Naphthalene	0.0500	0.04901		mg/L		98	70 - 130
n-Butylbenzene	0.0500	0.05050		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.05006		mg/L		100	75 - 125
o-Xylene	0.0500	0.04987		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05115		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.05012		mg/L		100	75 - 125
Styrene	0.0500	0.05142		mg/L		103	75 - 125
tert-Butylbenzene	0.0500	0.05173		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05129		mg/L		103	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04730		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.05296		mg/L		106	71 - 125
Toluene	0.0500	0.04948		mg/L		99	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05083		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05154		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05161		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05296		mg/L		106	75 - 135
1,1,1-Trichloroethane	0.0500	0.04844		mg/L		97	70 - 130
1,1,2-Trichloroethane	0.0500	0.04964		mg/L		99	70 - 130
Trichloroethene	0.0500	0.05121		mg/L		102	75 - 135
Trichlorofluoromethane	0.0500	0.05266		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04641		mg/L		93	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05147		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05001		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.04824		mg/L		96	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		74 - 124				
Dibromofluoromethane (Surr)	99		75 - 131				
1,2-Dichloroethane-d4 (Surr)	98		63 - 144				
Toluene-d8 (Surr)	99		80 - 117				

QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-83303/4

Matrix: Water

Analysis Batch: 83303

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	0.04969		mg/L		99	75 - 125	1	25
Bromobenzene	0.0500	0.04898		mg/L		98	75 - 125	4	25
Bromochloromethane	0.0500	0.04803		mg/L		96	60 - 140	4	25
Bromodichloromethane	0.0500	0.05188		mg/L		104	75 - 125	1	25
Bromoform	0.0500	0.05250		mg/L		105	70 - 130	0	25
Bromomethane	0.0500	0.04172		mg/L		83	60 - 140	2	25
2-Butanone	0.250	0.2174		mg/L		87	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05318		mg/L		106	70 - 130	2	25
Chlorobenzene	0.0500	0.04905		mg/L		98	65 - 135	2	25
Chloroethane	0.0500	0.04788		mg/L		96	60 - 140	4	25
Chloroform	0.0500	0.04884		mg/L		98	70 - 121	1	25
Chloromethane	0.0500	0.04725		mg/L		94	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04838		mg/L		97	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04838		mg/L		97	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04884		mg/L		98	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05101		mg/L		102	74 - 125	0	25
Dibromochloromethane	0.0500	0.05133		mg/L		103	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04734		mg/L		95	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.04703		mg/L		94	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.04944		mg/L		99	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.04907		mg/L		98	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04849		mg/L		97	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04588		mg/L		92	70 - 130	4	25
1,1-Dichloroethane	0.0500	0.04857		mg/L		97	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.04837		mg/L		97	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05114		mg/L		102	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04883		mg/L		98	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04831		mg/L		97	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05258		mg/L		105	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04995		mg/L		100	75 - 125	1	25
Ethylbenzene	0.0500	0.04984		mg/L		100	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05347		mg/L		107	75 - 125	2	25
Isopropylbenzene	0.0500	0.05222		mg/L		104	75 - 125	2	25
Methylene Chloride	0.0500	0.04157		mg/L		83	75 - 125	1	25
m,p-Xylenes	0.0500	0.05044		mg/L		101	75 - 125	0	25
MTBE	0.0500	0.04722		mg/L		94	65 - 135	1	25
Naphthalene	0.0500	0.04831		mg/L		97	70 - 130	1	25
n-Butylbenzene	0.0500	0.05124		mg/L		102	75 - 125	1	25
N-Propylbenzene	0.0500	0.05023		mg/L		100	75 - 125	0	25
o-Xylene	0.0500	0.05042		mg/L		101	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05130		mg/L		103	75 - 125	0	25
sec-Butylbenzene	0.0500	0.05116		mg/L		102	75 - 125	2	25
Styrene	0.0500	0.05075		mg/L		101	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05147		mg/L		103	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05096		mg/L		102	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04516		mg/L		90	74 - 125	5	25
Tetrachloroethene	0.0500	0.05442		mg/L		109	71 - 125	3	25
Toluene	0.0500	0.04959		mg/L		99	70 - 130	0	25

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-83303/4

Matrix: Water

Analysis Batch: 83303

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.05100		mg/L		102	75 - 125	0	25
trans-1,3-Dichloropropene	0.0500	0.04934		mg/L		99	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05180		mg/L		104	75 - 137	0	25
1,2,4-Trichlorobenzene	0.0500	0.05235		mg/L		105	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.04922		mg/L		98	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04794		mg/L		96	70 - 130	3	25
Trichloroethene	0.0500	0.05247		mg/L		105	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05492		mg/L		110	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.04418		mg/L		88	75 - 125	5	25
1,2,4-Trimethylbenzene	0.0500	0.05020		mg/L		100	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04966		mg/L		99	60 - 140	1	25
Vinyl chloride	0.0500	0.05022		mg/L		100	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		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 860-83199/38

Matrix: Water

Analysis Batch: 83199

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			12/22/22 19:13	1
Chloride	<0.200	U	0.500	0.200 mg/L			12/22/22 19:13	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/22/22 19:13	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/22/22 19:13	1

Lab Sample ID: MB 860-83199/8

Matrix: Water

Analysis Batch: 83199

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			12/22/22 11:20	1
Chloride	0.2803	J	0.500	0.200 mg/L			12/22/22 11:20	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/22/22 11:20	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/22/22 11:20	1

Lab Sample ID: LCS 860-83199/39

Matrix: Water

Analysis Batch: 83199

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	9.967		mg/L		100	90 - 110
Chloride	10.0	9.693		mg/L		97	90 - 110
Fluoride	10.0	10.42		mg/L		104	90 - 110

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-83199/39

Matrix: Water

Analysis Batch: 83199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.101		mg/L		91	90 - 110

Lab Sample ID: LCSD 860-83199/40

Matrix: Water

Analysis Batch: 83199

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	9.920		mg/L		99	90 - 110	0	20
Chloride	10.0	9.643		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.37		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.027		mg/L		90	90 - 110	1	20

Lab Sample ID: LLCS 860-83199/12

Matrix: Water

Analysis Batch: 83199

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	0.5019		mg/L		100	50 - 150
Chloride	0.500	0.5393		mg/L		108	50 - 150
Fluoride	0.500	0.4778	J	mg/L		96	50 - 150
Sulfate	0.500	0.4474	J	mg/L		89	50 - 150

Lab Sample ID: MB 860-83200/38

Matrix: Water

Analysis Batch: 83200

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		12/22/22 19:13	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L		12/22/22 19:13	1

Lab Sample ID: MB 860-83200/8

Matrix: Water

Analysis Batch: 83200

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		12/22/22 11:20	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L		12/22/22 11:20	1

Lab Sample ID: LCS 860-83200/39

Matrix: Water

Analysis Batch: 83200

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	9.999		mg/L		100	80 - 120
Nitrite as N	5.00	4.794		mg/L		96	80 - 120

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-83200/40

Matrix: Water

Analysis Batch: 83200

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
Nitrate as N	10.0	9.953		mg/L		100	80 - 120		0	20
Nitrite as N	5.00	4.768		mg/L		95	80 - 120		1	20

Lab Sample ID: LLCS 860-83200/11

Matrix: Water

Analysis Batch: 83200

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	0.1107		mg/L		111	50 - 150	
Nitrite as N	0.100	0.05735	J	mg/L		57	50 - 150	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-83293/1-A

Matrix: Water

Analysis Batch: 83463

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 83293

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.115	U	0.200	0.115 mg/L		12/26/22 10:45	12/27/22 10:03	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		12/26/22 10:45	12/27/22 10:03	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		12/26/22 10:45	12/27/22 10:03	1
Sodium	<0.152	U	0.500	0.152 mg/L		12/26/22 10:45	12/27/22 10:03	1
SiO2	<0.471	U	1.07	0.471 mg/L		12/26/22 10:45	12/27/22 10:03	1

Lab Sample ID: LCS 860-83293/2-A

Matrix: Water

Analysis Batch: 83463

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 83293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Calcium	25.0	25.10		mg/L		100	85 - 115	
Magnesium	25.0	24.50		mg/L		98	85 - 115	
Potassium	10.0	9.720		mg/L		97	85 - 115	
Sodium	25.0	24.50		mg/L		98	85 - 115	
SiO2	21.4	20.72		mg/L		97	85 - 115	

Lab Sample ID: LCSD 860-83293/3-A

Matrix: Water

Analysis Batch: 83463

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 83293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Calcium	25.0	25.20		mg/L		101	85 - 115		0	20
Magnesium	25.0	24.60		mg/L		98	85 - 115		0	20
Potassium	10.0	9.700		mg/L		97	85 - 115		0	20
Sodium	25.0	24.60		mg/L		98	85 - 115		0	20
SiO2	21.4	20.78		mg/L		97	85 - 115		0	20

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-83293/4-A

Matrix: Water

Analysis Batch: 83463

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 83293

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							50 - 150	50 - 150
Calcium	0.200	0.2400		mg/L		120		
Magnesium	0.200	0.2430		mg/L		122		
Potassium	0.500	0.5140		mg/L		103		
Sodium	0.500	0.5330		mg/L		107		
SiO2	1.07	1.149		mg/L		107		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-83471/3

Matrix: Water

Analysis Batch: 83471

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			12/27/22 11:18	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			12/27/22 11:18	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			12/27/22 11:18	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			12/27/22 11:18	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			12/27/22 11:18	1

Lab Sample ID: LCS 860-83471/4

Matrix: Water

Analysis Batch: 83471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							85 - 115	
Alkalinity	250	259.0		mg/L		104		

Lab Sample ID: LCSD 860-83471/5

Matrix: Water

Analysis Batch: 83471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Alkalinity	250	262.4		mg/L		105	85 - 115	1	20

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

Lab Sample ID: MB 860-83321/1

Matrix: Water

Analysis Batch: 83321

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	<5.00	U	5.00	mg/L			12/26/22 22:43	1

Lab Sample ID: LCS 860-83321/2

Matrix: Water

Analysis Batch: 83321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							80 - 120	
Total Dissolved Solids	1000	995.0		mg/L		100		

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QC Sample Results

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

Job ID: 880-23016-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-83321/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 83321											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1013		mg/L		101	80 - 120	2	10

Lab Sample ID: LLCS 860-83321/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 83321											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.000		mg/L		120	50 - 150		

Lab Sample ID: 880-23016-1 DU				Client Sample ID: Levey Well							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 83321											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1130			1121		mg/L				1	10

QC Association Summary

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

Job ID: 880-23016-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 83303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	8260C	
MB 860-83303/9	Method Blank	Total/NA	Water	8260C	
LCS 860-83303/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-83303/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 83199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	300.0	
MB 860-83199/38	Method Blank	Total/NA	Water	300.0	
MB 860-83199/8	Method Blank	Total/NA	Water	300.0	
LCS 860-83199/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-83199/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-83199/12	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 83200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	300.0	
MB 860-83200/38	Method Blank	Total/NA	Water	300.0	
MB 860-83200/8	Method Blank	Total/NA	Water	300.0	
LCS 860-83200/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-83200/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-83200/11	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 83293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-83293/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-83293/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-83293/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-83293/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 83463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	83293
880-23016-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	83293
MB 860-83293/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	83293
LCS 860-83293/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	83293
LCSD 860-83293/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	83293
LLCS 860-83293/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	83293

General Chemistry

Analysis Batch: 83321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-83321/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-83321/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-83321/3	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: 880-23016-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 83321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-83321/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-23016-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 83436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 83471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-83471/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-83471/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-83471/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 83994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23016-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-23016-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-23016-1
Date Collected: 12/21/22 11:55 Matrix: Water
Date Received: 12/21/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	83303	NA	EET HOU	12/26/22 15:59
Total/NA	Analysis	300.0		1	83199	A1S	EET HOU	12/22/22 23:46
Total/NA	Analysis	300.0		1	83200	A1S	EET HOU	12/22/22 23:46
Total Recoverable	Prep	200.7			83293	AGR	EET HOU	12/26/22 10:45
Total Recoverable	Analysis	200.7 Rev 4.4		1	83463	JDM	EET HOU	12/27/22 10:52
Total Recoverable	Prep	200.7			83293	AGR	EET HOU	12/26/22 10:45
Total Recoverable	Analysis	200.7 Rev 4.4		50	83463	JDM	EET HOU	12/27/22 11:10
Total/NA	Analysis	SM 1030E		1	83994	AA	EET HOU	12/30/22 13:15
Total/NA	Analysis	SM 2320B		1	83471	TL	EET HOU	12/27/22 15:15
Total/NA	Analysis	SM 2540C		1	83321	YGG	EET HOU	12/26/22 22:43
Total/NA	Analysis	SM 4500 H+ B		1	83436	TL	EET HOU	12/27/22 12:55

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: 880-23016-1
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	T104704215-22-48	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: 880-23016-1
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

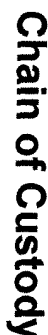
Sample Summary

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

Job ID: 880-23016-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23016-1	Levey Well	Water	12/21/22 11:55	12/21/22 15:16

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28010

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-6800) Tampa FL (813) 281-5550
Hobbs, NM (575-392-7550)

Page 1 of 1
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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 ☐	

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eurofins

Environment Testing Testimonials

DATE 2

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Notice: Signature of this document is required for service. Xanoco will be liable only for the minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xanoco, 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 		12/21/22	2		
3 		1/31/23	4		
5			6		

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab P.M.	Carrier Tracking No(s)	COC No													
Client Contact		Phone	E-Mail	State of Origin	Page													
Shipping/Receiving		Accreditations Required (See note):		Page 1 of 1	880-5993-1													
Company: Eurofins Environment Testing South Cent		NEAP Texas		Job #	880-23016-1													
Address: 4145 Greenbriar Dr		Due Date Requested:	Analysis Requested															
City: Stafford		12/27/2022																
State, Zip: TX, 77477		TAI Requested (day):																
Phone: 281-240-4200(Te)		PO #:																
Email:		WFO #:																
Project Name: Levey Well Hobbs, NM 0381417001		Project #:																
Site: SSO#:		88000024																
		SSOW#:																
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weater, Solid, Overload, BT/TAU, A=H)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6260C/5030C (MOD) Full List VOCs	200.7/200.7_P_TR (MOD) Custom List	300_ORGFMS/28D/ Br Cl, F, SO4	300_ORGFMS/ NO2, NO3	SM4500_H+/ pH	2540C_Calcd/ TDS	2320B/ Alkalinity	Cation_Anion/ (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:	
Levey Well (880-23016-1)		12/21/22	11:55		Water			X	X	X	X	X	X	X	X		7	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin, listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. Possible Hazard Identification Unconfirmed Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2 Special Instructions/QC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months Empty Kit Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Method of Shipment: Relinquished by: <i>[Signature]</i> Date/Time: Company: Received by: <i>[Signature]</i> Date/Time: 12/22/2022 11:30 Company: EX Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Custody Seals Intact: Custody Seal No. Cooler Temperature(s) °C and Other Remark: C/F +0.3 15 Corrected Temp: 18																		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-23016-1

SDG Number: Hobbs NM

Login Number: 23016

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: 880-23016-1

SDG Number: Hobbs NM

Login Number: 23016

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/22/22 02:03 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 1/5/2023 2:33:01 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-23168-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/5/2023 2:33:01 PM

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

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

Laboratory Job ID: 880-23168-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-23168-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
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.
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: 880-23168-1
SDG: Hobbs NM

Job ID: 880-23168-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-23168-1

Receipt

The sample was received on 12/29/2022 3:32 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 2.0°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-84010 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-84104 and analytical batch 860-84307 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.

General Chemistry

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

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Client Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-23168-1

Date Collected: 12/29/22 11:15

Matrix: Water

Date Received: 12/29/22 15:32

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00325		0.00100	0.000533	mg/L		12/30/22 13:00	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		12/30/22 13:00	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		12/30/22 13:00	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		12/30/22 13:00	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		12/30/22 13:00	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		12/30/22 13:00	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		12/30/22 13:00	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		12/30/22 13:00	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		12/30/22 13:00	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		12/30/22 13:00	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		12/30/22 13:00	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		12/30/22 13:00	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		12/30/22 13:00	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		12/30/22 13:00	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		12/30/22 13:00	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		12/30/22 13:00	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		12/30/22 13:00	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		12/30/22 13:00	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		12/30/22 13:00	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		12/30/22 13:00	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		12/30/22 13:00	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		12/30/22 13:00	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		12/30/22 13:00	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		12/30/22 13:00	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		12/30/22 13:00	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		12/30/22 13:00	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		12/30/22 13:00	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		12/30/22 13:00	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		12/30/22 13:00	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		12/30/22 13:00	1
Ethylbenzene	0.0122		0.00100	0.000411	mg/L		12/30/22 13:00	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		12/30/22 13:00	1
Isopropylbenzene	0.00601		0.00100	0.000613	mg/L		12/30/22 13:00	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		12/30/22 13:00	1
m,p-Xylenes	0.0485		0.0100	0.00124	mg/L		12/30/22 13:00	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		12/30/22 13:00	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		12/30/22 13:00	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		12/30/22 13:00	1
N-Propylbenzene	0.00294		0.00100	0.000498	mg/L		12/30/22 13:00	1
o-Xylene	0.00793		0.00100	0.000551	mg/L		12/30/22 13:00	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		12/30/22 13:00	1
sec-Butylbenzene	0.00119		0.00100	0.000468	mg/L		12/30/22 13:00	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		12/30/22 13:00	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		12/30/22 13:00	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		12/30/22 13:00	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		12/30/22 13:00	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		12/30/22 13:00	1
Toluene	0.0244		0.00100	0.000475	mg/L		12/30/22 13:00	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		12/30/22 13:00	1

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Client Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-23168-1

Date Collected: 12/29/22 11:15

Matrix: Water

Date Received: 12/29/22 15:32

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			12/30/22 13:00	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/30/22 13:00	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/30/22 13:00	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/30/22 13:00	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/30/22 13:00	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/30/22 13:00	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/30/22 13:00	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/30/22 13:00	1
1,2,4-Trimethylbenzene	0.0127		0.00100	0.000417 mg/L			12/30/22 13:00	1
1,3,5-Trimethylbenzene	0.00393		0.00100	0.000456 mg/L			12/30/22 13:00	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/30/22 13:00	1
Xylenes, Total	0.0564		0.0100	0.00124 mg/L			12/30/22 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		12/30/22 13:00	1
Dibromofluoromethane (Surr)	102		75 - 131		12/30/22 13:00	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		12/30/22 13:00	1
Toluene-d8 (Surr)	98		80 - 117		12/30/22 13:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.515		0.500	0.0711 mg/L			12/30/22 23:24	1
Nitrate as N	0.0543	J	0.100	0.0391 mg/L			12/30/22 23:24	1
Chloride	209		0.500	0.200 mg/L			12/30/22 23:24	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/30/22 23:24	1
Fluoride	0.568		0.500	0.100 mg/L			12/30/22 23:24	1
Sulfate	43.5		0.500	0.109 mg/L			12/30/22 23:24	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		01/03/23 10:00	01/03/23 17:34	50
Magnesium	45.9		0.200	0.0428 mg/L		01/03/23 10:00	01/03/23 17:12	1
Potassium	3.93		0.500	0.0914 mg/L		01/03/23 10:00	01/04/23 14:50	1
Sodium	74.9		0.500	0.152 mg/L		01/03/23 10:00	01/04/23 14:50	1
SiO2	57.6		1.07	0.471 mg/L		01/03/23 10:00	01/03/23 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-7.08			%			01/04/23 08:26	1
Alkalinity (SM 2320B)	670		4.00	4.00 mg/L			12/31/22 12:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	670		4.00	4.00 mg/L			12/31/22 12:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/31/22 12:49	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/31/22 12:49	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/31/22 12:49	1
Total Dissolved Solids (SM 2540C)	1060		10.0	10.0 mg/L			01/03/23 22:06	1
pH (SM 4500 H+ B)	6.6	HF		SU			12/30/22 15:56	1
Temperature (SM 4500 H+ B)	16.0	HF		Degrees C			12/30/22 15:56	1

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Surrogate Summary

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

Job ID: 880-23168-1
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)
880-23168-1	Levey Well	103	102	102	98
LCS 860-83894/3	Lab Control Sample	99	101	102	98
LCSD 860-83894/4	Lab Control Sample Dup	99	100	101	99
MB 860-83894/9	Method Blank	102	98	101	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: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-83894/9

Matrix: Water

Analysis Batch: 83894

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			12/30/22 10:57	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/30/22 10:57	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/30/22 10:57	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/30/22 10:57	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/30/22 10:57	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/30/22 10:57	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/30/22 10:57	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/30/22 10:57	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/30/22 10:57	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/30/22 10:57	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/30/22 10:57	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/30/22 10:57	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/30/22 10:57	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/30/22 10:57	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/30/22 10:57	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/30/22 10:57	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/30/22 10:57	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 10:57	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/30/22 10:57	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/30/22 10:57	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 10:57	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 10:57	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 10:57	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/30/22 10:57	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/30/22 10:57	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/30/22 10:57	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/30/22 10:57	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/30/22 10:57	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/30/22 10:57	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/30/22 10:57	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/30/22 10:57	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/30/22 10:57	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/30/22 10:57	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/30/22 10:57	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/30/22 10:57	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/30/22 10:57	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/30/22 10:57	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 10:57	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/30/22 10:57	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/30/22 10:57	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 10:57	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/30/22 10:57	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/30/22 10:57	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/30/22 10:57	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 10:57	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/30/22 10:57	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/30/22 10:57	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/30/22 10:57	1

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-83894/9

Matrix: Water

Analysis Batch: 83894

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			12/30/22 10:57	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 10:57	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/30/22 10:57	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/30/22 10:57	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/30/22 10:57	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/30/22 10:57	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/30/22 10:57	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/30/22 10:57	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/30/22 10:57	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/30/22 10:57	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/30/22 10:57	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/30/22 10:57	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/30/22 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		12/30/22 10:57	1
Dibromofluoromethane (Surr)	98		75 - 131		12/30/22 10:57	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		12/30/22 10:57	1
Toluene-d8 (Surr)	99		80 - 117		12/30/22 10:57	1

Lab Sample ID: LCS 860-83894/3

Matrix: Water

Analysis Batch: 83894

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	0.04572		mg/L		91	75 - 125
Bromobenzene	0.0500	0.04602		mg/L		92	75 - 125
Bromochloromethane	0.0500	0.04832		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04582		mg/L		92	75 - 125
Bromoform	0.0500	0.04169		mg/L		83	70 - 130
Bromomethane	0.0500	0.03661		mg/L		73	60 - 140
2-Butanone	0.250	0.2194		mg/L		88	60 - 140
Carbon tetrachloride	0.0500	0.04503		mg/L		90	70 - 130
Chlorobenzene	0.0500	0.04535		mg/L		91	65 - 135
Chloroethane	0.0500	0.04360		mg/L		87	60 - 140
Chloroform	0.0500	0.04638		mg/L		93	70 - 121
Chloromethane	0.0500	0.05093		mg/L		102	60 - 140
2-Chlorotoluene	0.0500	0.04525		mg/L		91	73 - 125
4-Chlorotoluene	0.0500	0.04562		mg/L		91	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04753		mg/L		95	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04652		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04346		mg/L		87	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04115		mg/L		82	59 - 125
1,2-Dibromoethane	0.0500	0.04475		mg/L		89	73 - 125
1,2-Dichlorobenzene	0.0500	0.04621		mg/L		92	75 - 125
1,3-Dichlorobenzene	0.0500	0.04607		mg/L		92	75 - 125
1,4-Dichlorobenzene	0.0500	0.04599		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.05444		mg/L		109	70 - 130

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-83894/3

Matrix: Water

Analysis Batch: 83894

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	0.04691		mg/L		94	70 - 130
1,2-Dichloroethane	0.0500	0.04882		mg/L		98	72 - 130
1,1-Dichloroethene	0.0500	0.04711		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.04721		mg/L		94	74 - 125
1,3-Dichloropropane	0.0500	0.04523		mg/L		90	75 - 125
2,2-Dichloropropane	0.0500	0.04604		mg/L		92	75 - 125
1,1-Dichloropropene	0.0500	0.04625		mg/L		93	75 - 125
Ethylbenzene	0.0500	0.04545		mg/L		91	75 - 125
Hexachlorobutadiene	0.0500	0.04789		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04519		mg/L		90	75 - 125
Methylene Chloride	0.0500	0.04500		mg/L		90	75 - 125
m,p-Xylenes	0.0500	0.04528		mg/L		91	75 - 125
MTBE	0.0500	0.04628		mg/L		93	65 - 135
Naphthalene	0.0500	0.04530		mg/L		91	70 - 130
n-Butylbenzene	0.0500	0.04670		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04541		mg/L		91	75 - 125
o-Xylene	0.0500	0.04580		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04567		mg/L		91	75 - 125
sec-Butylbenzene	0.0500	0.04543		mg/L		91	75 - 125
Styrene	0.0500	0.04607		mg/L		92	75 - 125
tert-Butylbenzene	0.0500	0.04493		mg/L		90	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04514		mg/L		90	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04453		mg/L		89	74 - 125
Tetrachloroethene	0.0500	0.04532		mg/L		91	71 - 125
Toluene	0.0500	0.04510		mg/L		90	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04583		mg/L		92	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04562		mg/L		91	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04660		mg/L		93	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04748		mg/L		95	75 - 135
1,1,1-Trichloroethane	0.0500	0.04597		mg/L		92	70 - 130
1,1,2-Trichloroethane	0.0500	0.04516		mg/L		90	70 - 130
Trichloroethene	0.0500	0.04561		mg/L		91	75 - 135
Trichlorofluoromethane	0.0500	0.04820		mg/L		96	60 - 140
1,2,3-Trichloropropane	0.0500	0.04128		mg/L		83	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04577		mg/L		92	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04534		mg/L		91	60 - 140
Vinyl chloride	0.0500	0.04927		mg/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		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: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-83894/4

Matrix: Water

Analysis Batch: 83894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.04332		mg/L		87	75 - 125	5	25
Bromobenzene	0.0500	0.04381		mg/L		88	75 - 125	5	25
Bromochloromethane	0.0500	0.04703		mg/L		94	60 - 140	3	25
Bromodichloromethane	0.0500	0.04461		mg/L		89	75 - 125	3	25
Bromoform	0.0500	0.04225		mg/L		84	70 - 130	1	25
Bromomethane	0.0500	0.03386		mg/L		68	60 - 140	8	25
2-Butanone	0.250	0.2216		mg/L		89	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04155		mg/L		83	70 - 130	8	25
Chlorobenzene	0.0500	0.04353		mg/L		87	65 - 135	4	25
Chloroethane	0.0500	0.04033		mg/L		81	60 - 140	8	25
Chloroform	0.0500	0.04420		mg/L		88	70 - 121	5	25
Chloromethane	0.0500	0.04733		mg/L		95	60 - 140	7	25
2-Chlorotoluene	0.0500	0.04249		mg/L		85	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04261		mg/L		85	74 - 125	7	25
cis-1,2-Dichloroethene	0.0500	0.04497		mg/L		90	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.04529		mg/L		91	74 - 125	3	25
Dibromochloromethane	0.0500	0.04328		mg/L		87	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04291		mg/L		86	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.04497		mg/L		90	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04384		mg/L		88	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.04358		mg/L		87	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04367		mg/L		87	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.04809		mg/L		96	70 - 130	12	25
1,1-Dichloroethane	0.0500	0.04436		mg/L		89	70 - 130	6	25
1,2-Dichloroethane	0.0500	0.04757		mg/L		95	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.04341		mg/L		87	50 - 150	8	25
1,2-Dichloropropane	0.0500	0.04502		mg/L		90	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04534		mg/L		91	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.04257		mg/L		85	75 - 125	8	25
1,1-Dichloropropene	0.0500	0.04274		mg/L		85	75 - 125	8	25
Ethylbenzene	0.0500	0.04304		mg/L		86	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.04507		mg/L		90	75 - 125	6	25
Isopropylbenzene	0.0500	0.04276		mg/L		86	75 - 125	6	25
Methylene Chloride	0.0500	0.04314		mg/L		86	75 - 125	4	25
m,p-Xylenes	0.0500	0.04272		mg/L		85	75 - 125	6	25
MTBE	0.0500	0.04581		mg/L		92	65 - 135	1	25
Naphthalene	0.0500	0.04702		mg/L		94	70 - 130	4	25
n-Butylbenzene	0.0500	0.04333		mg/L		87	75 - 125	7	25
N-Propylbenzene	0.0500	0.04224		mg/L		84	75 - 125	7	25
o-Xylene	0.0500	0.04363		mg/L		87	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04253		mg/L		85	75 - 125	7	25
sec-Butylbenzene	0.0500	0.04216		mg/L		84	75 - 125	7	25
Styrene	0.0500	0.04395		mg/L		88	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04197		mg/L		84	75 - 125	7	25
1,1,1,2-Tetrachloroethane	0.0500	0.04392		mg/L		88	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04488		mg/L		90	74 - 125	1	25
Tetrachloroethene	0.0500	0.04251		mg/L		85	71 - 125	6	25
Toluene	0.0500	0.04298		mg/L		86	70 - 130	5	25

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-83894/4

Matrix: Water

Analysis Batch: 83894

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	0.04347		mg/L		87	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04477		mg/L		90	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04702		mg/L		94	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.04655		mg/L		93	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04286		mg/L		86	70 - 130	7	25
1,1,2-Trichloroethane	0.0500	0.04513		mg/L		90	70 - 130	0	25
Trichloroethene	0.0500	0.04292		mg/L		86	75 - 135	6	25
Trichlorofluoromethane	0.0500	0.04356		mg/L		87	60 - 140	10	25
1,2,3-Trichloropropane	0.0500	0.04128		mg/L		83	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04295		mg/L		86	75 - 125	6	25
1,3,5-Trimethylbenzene	0.0500	0.04224		mg/L		84	60 - 140	7	25
Vinyl chloride	0.0500	0.04523		mg/L		90	60 - 140	9	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-84010/3

Matrix: Water

Analysis Batch: 84010

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			12/30/22 19:53	1
Chloride	<0.200	U	0.500	0.200 mg/L			12/30/22 19:53	1
Fluoride	<0.100	U	0.500	0.100 mg/L			12/30/22 19:53	1
Sulfate	<0.109	U	0.500	0.109 mg/L			12/30/22 19:53	1

Lab Sample ID: LCS 860-84010/4

Matrix: Water

Analysis Batch: 84010

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	9.418		mg/L		94	90 - 110
Chloride	10.0	9.664		mg/L		97	90 - 110
Fluoride	10.0	9.829		mg/L		98	90 - 110
Sulfate	10.0	9.447		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-84010/5

Matrix: Water

Analysis Batch: 84010

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	9.449		mg/L		94	90 - 110	0	20
Chloride	10.0	9.681		mg/L		97	90 - 110	0	20
Fluoride	10.0	9.857		mg/L		99	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-84010/5

Matrix: Water

Analysis Batch: 84010

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	9.450		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-84010/7

Matrix: Water

Analysis Batch: 84010

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	0.5615		mg/L		112	50 - 150		
Chloride	0.500	0.5215		mg/L		104	50 - 150		
Fluoride	0.500	0.4584	J	mg/L		92	50 - 150		
Sulfate	0.500	0.5538		mg/L		111	50 - 150		

Lab Sample ID: 880-23168-1 MS

Matrix: Water

Analysis Batch: 84010

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	0.515		10.0	9.708		mg/L		92	90 - 110		
Chloride	209		10.0	213.3	4	mg/L		47	90 - 110		
Fluoride	0.568		10.0	9.672		mg/L		91	90 - 110		
Sulfate	43.5		10.0	52.79	4	mg/L		93	90 - 110		

Lab Sample ID: 880-23168-1 MSD

Matrix: Water

Analysis Batch: 84010

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	0.515		10.0	9.760		mg/L		92	90 - 110	1	20
Chloride	209		10.0	213.6	4	mg/L		50	90 - 110	0	20
Fluoride	0.568		10.0	9.759		mg/L		92	90 - 110	1	20
Sulfate	43.5		10.0	52.95	4	mg/L		94	90 - 110	0	20

Lab Sample ID: MB 860-84011/3

Matrix: Water

Analysis Batch: 84011

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			12/30/22 19:53	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/30/22 19:53	1

Lab Sample ID: LCS 860-84011/4

Matrix: Water

Analysis Batch: 84011

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	9.561		mg/L		96	80 - 120		
Nitrite as N	10.0	9.574		mg/L		96	80 - 120		

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-84011/5

Matrix: Water

Analysis Batch: 84011

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	9.555		mg/L		96	80 - 120	0	20
Nitrite as N	10.0	9.594		mg/L		96	80 - 120	0	20

Lab Sample ID: LLCS 860-84011/6

Matrix: Water

Analysis Batch: 84011

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
Nitrate as N	0.100	0.1201		mg/L		120	50 - 150		
Nitrite as N	0.100	0.1012		mg/L		101	50 - 150		

Lab Sample ID: 880-23168-1 MS

Matrix: Water

Analysis Batch: 84011

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
Nitrate as N	0.0543	J	10.0	9.374		mg/L		93	80 - 120		
Nitrite as N	<0.0293	U	2.50	2.244		mg/L		90	80 - 120		

Lab Sample ID: 880-23168-1 MSD

Matrix: Water

Analysis Batch: 84011

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	0.0543	J	10.0	9.396		mg/L		93	80 - 120	0	15
Nitrite as N	<0.0293	U	2.50	2.256		mg/L		90	80 - 120	1	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-84104/1-A

Matrix: Water

Analysis Batch: 84307

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 84104

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		01/03/23 10:00	01/03/23 16:33	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		01/03/23 10:00	01/03/23 16:33	1
SiO2	<0.471	U	1.07	0.471 mg/L		01/03/23 10:00	01/03/23 16:33	1

Lab Sample ID: MB 860-84104/1-A

Matrix: Water

Analysis Batch: 84367

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 84104

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.0914	U	0.500	0.0914 mg/L		01/03/23 10:00	01/04/23 14:24	1
Sodium	<0.152	U	0.500	0.152 mg/L		01/03/23 10:00	01/04/23 14:24	1

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-84104/2-A
Matrix: Water
Analysis Batch: 84307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 84104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.60		mg/L		102	85 - 115
Magnesium	25.0	25.00		mg/L		100	85 - 115
SiO2	21.4	20.80		mg/L		97	85 - 115

Lab Sample ID: LCS 860-84104/2-A
Matrix: Water
Analysis Batch: 84367

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 84104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	10.0	9.800		mg/L		98	85 - 115
Sodium	25.0	22.90		mg/L		92	85 - 115

Lab Sample ID: LCSD 860-84104/3-A
Matrix: Water
Analysis Batch: 84307

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 84104

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.60		mg/L		102	85 - 115	0	20
Magnesium	25.0	24.90		mg/L		100	85 - 115	0	20
SiO2	21.4	20.82		mg/L		97	85 - 115	0	20

Lab Sample ID: LCSD 860-84104/3-A
Matrix: Water
Analysis Batch: 84367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 84104

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	10.0	9.790		mg/L		98	85 - 115	0	20
Sodium	25.0	22.90		mg/L		92	85 - 115	0	20

Lab Sample ID: LLCS 860-84104/4-A
Matrix: Water
Analysis Batch: 84307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 84104

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2410		mg/L		121	50 - 150
Magnesium	0.200	0.2420		mg/L		121	50 - 150
SiO2	1.07	1.149		mg/L		107	50 - 150

Lab Sample ID: LLCS 860-84104/4-A
Matrix: Water
Analysis Batch: 84367

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 84104

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	0.500	0.4480	J	mg/L		90	50 - 150
Sodium	0.500	0.4580	J	mg/L		92	50 - 150

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-84113/3

Matrix: Water

Analysis Batch: 84113

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			12/31/22 10:25	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00 mg/L			12/31/22 10:25	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00 mg/L			12/31/22 10:25	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			12/31/22 10:25	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			12/31/22 10:25	1

Lab Sample ID: LCS 860-84113/4

Matrix: Water

Analysis Batch: 84113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	254.8		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-84113/5

Matrix: Water

Analysis Batch: 84113

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	261.6		mg/L		105	85 - 115	3	20

Lab Sample ID: 880-23168-1 DU

Matrix: Water

Analysis Batch: 84113

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	670		673.9		mg/L		0.5	20
Bicarbonate Alkalinity as CaCO ₃	670		673.9		mg/L		0.5	20
Carbonate Alkalinity as CaCO ₃	<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 860-84241/1

Matrix: Water

Analysis Batch: 84241

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			01/03/23 22:06	1

Lab Sample ID: LCS 860-84241/2

Matrix: Water

Analysis Batch: 84241

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	961.0		mg/L		96	80 - 120

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QC Sample Results

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

Job ID: 880-23168-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-84241/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 84241											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Total Dissolved Solids	1000	1001		mg/L		100	80 - 120	4	10		

Lab Sample ID: LLCS 860-84241/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 84241											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Total Dissolved Solids	5.00	<5.00	U	mg/L		80	50 - 150				

QC Association Summary

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

Job ID: 880-23168-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 83894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	8260C	
MB 860-83894/9	Method Blank	Total/NA	Water	8260C	
LCS 860-83894/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-83894/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 84010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	300.0	
MB 860-84010/3	Method Blank	Total/NA	Water	300.0	
LCS 860-84010/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-84010/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-84010/7	Lab Control Sample	Total/NA	Water	300.0	
880-23168-1 MS	Levey Well	Total/NA	Water	300.0	
880-23168-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 84011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	300.0	
MB 860-84011/3	Method Blank	Total/NA	Water	300.0	
LCS 860-84011/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-84011/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-84011/6	Lab Control Sample	Total/NA	Water	300.0	
880-23168-1 MS	Levey Well	Total/NA	Water	300.0	
880-23168-1 MSD	Levey Well	Total/NA	Water	300.0	

Metals

Prep Batch: 84104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-84104/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-84104/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-84104/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-84104/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 84307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	84104
880-23168-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	84104
MB 860-84104/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	84104
LCS 860-84104/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	84104
LCSD 860-84104/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	84104
LLCS 860-84104/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	84104

Analysis Batch: 84367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	84104
MB 860-84104/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	84104
LCS 860-84104/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	84104
LCSD 860-84104/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	84104

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QC Association Summary

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

Job ID: 880-23168-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 84367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-84104/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	84104

General Chemistry

Analysis Batch: 84023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 84113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-84113/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-84113/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-84113/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-23168-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 84241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-84241/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-84241/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-84241/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-84241/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 84261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23168-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-23168-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 12/29/22 11:15
Date Received: 12/29/22 15:32

Lab Sample ID: 880-23168-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	83894	AN	EET HOU	12/30/22 13:00
Total/NA	Analysis	300.0		1	84010	RBNS	EET HOU	12/30/22 23:24
Total/NA	Analysis	300.0		1	84011	RBNS	EET HOU	12/30/22 23:24
Total Recoverable	Prep	200.7			84104	MD	EET HOU	01/03/23 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	84307	JDM	EET HOU	01/03/23 17:12
Total Recoverable	Prep	200.7			84104	MD	EET HOU	01/03/23 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	84307	JDM	EET HOU	01/03/23 17:34
Total Recoverable	Prep	200.7			84104	MD	EET HOU	01/03/23 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	84367	JDM	EET HOU	01/04/23 14:50
Total/NA	Analysis	SM 1030E		1	84261	SC	EET HOU	01/04/23 08:26
Total/NA	Analysis	SM 2320B		1	84113	TL	EET HOU	12/31/22 12:49
Total/NA	Analysis	SM 2540C		1	84241	YGG	EET HOU	01/03/23 22:06
Total/NA	Analysis	SM 4500 H+ B		1	84023	TL	EET HOU	12/30/22 15:56

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: 880-23168-1
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	T104704215-22-48	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: 880-23168-1
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: 880-23168-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23168-1	Levey Well	Water	12/29/22 11:15	12/29/22 15:32

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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)555-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813) 975-392-7550

Chain of Custody

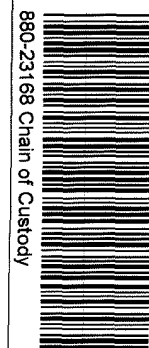
Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Meremfield #400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email:	jennings@ensolum.com

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

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other ☐



880-23168 Chain of Custody

Project Name:	Levey Well	Hobbs NM	Turn Around
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):	2.3/2.0				Thermometer ID	120	
Received intact:	Yes ☒ No						
Cooler Custody Seals:	Yes No	N/A			Correction Factor:	-0.3	
Sample Custody Seals:	Yes No	N/A			Total Containers:		

[illegible][illegible]

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Texas 11 Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	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 1631 / 245.1 / 7470 / 7471 Hg

Xenoco 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 Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, 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>	10/24/22			
		1532			

eurofins | Environment Testing
TestAmerica

1000078

SIGNATURE

DATE

Custody Seal
12-29-22

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Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record



eurofins

Environmental Test: ๓๕

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-23168-1

SDG Number: Hobbs NM

Login Number: 23168

List Number: 1

Creator: Kramer, Jessica

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: 880-23168-1

SDG Number: Hobbs NM

Login Number: 23168

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/30/22 11:17 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 1/6/2023 5:08:18 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-23169-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/6/2023 5:08:18 PM

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

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

Laboratory Job ID: 880-23169-1

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Definitions/Glossary

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

Job ID: 880-23169-1

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
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: 880-23169-1

Job ID: 880-23169-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-23169-1

Receipt

The samples were received on 12/29/2022 3:32 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 2.0°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-84010 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.

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Client Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-23169-1

Date Collected: 12/29/22 11:50

Matrix: Water

Date Received: 12/29/22 15:32

Method: SW846 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			12/30/22 12:19	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/30/22 12:19	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/30/22 12:19	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/30/22 12:19	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/30/22 12:19	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/30/22 12:19	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/30/22 12:19	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/30/22 12:19	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/30/22 12:19	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/30/22 12:19	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/30/22 12:19	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/30/22 12:19	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/30/22 12:19	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/30/22 12:19	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/30/22 12:19	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/30/22 12:19	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/30/22 12:19	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 12:19	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/30/22 12:19	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/30/22 12:19	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 12:19	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 12:19	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 12:19	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/30/22 12:19	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/30/22 12:19	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/30/22 12:19	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/30/22 12:19	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/30/22 12:19	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/30/22 12:19	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/30/22 12:19	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/30/22 12:19	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/30/22 12:19	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/30/22 12:19	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/30/22 12:19	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/30/22 12:19	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/30/22 12:19	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/30/22 12:19	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 12:19	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/30/22 12:19	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/30/22 12:19	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 12:19	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/30/22 12:19	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/30/22 12:19	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/30/22 12:19	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 12:19	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/30/22 12:19	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/30/22 12:19	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/30/22 12:19	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/30/22 12:19	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-23169-1

Client Sample ID: MW-1

Lab Sample ID: 880-23169-1

Date Collected: 12/29/22 11:50

Matrix: Water

Date Received: 12/29/22 15:32

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			12/30/22 12:19	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/30/22 12:19	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/30/22 12:19	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/30/22 12:19	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/30/22 12:19	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/30/22 12:19	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/30/22 12:19	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/30/22 12:19	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/30/22 12:19	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/30/22 12:19	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/30/22 12:19	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/30/22 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124		12/30/22 12:19	1
Dibromofluoromethane (Surr)	99		75 - 131		12/30/22 12:19	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		12/30/22 12:19	1
Toluene-d8 (Surr)	99		80 - 117		12/30/22 12:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.938	U	4.75	0.938 mg/L			01/03/23 22:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.938	U	4.75	0.938 mg/L		01/04/23 13:43	01/05/23 12:30	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938 mg/L		01/04/23 13:43	01/05/23 12:30	1
Oil Range Organics (Over C28-C36)	<0.905	U	4.75	0.905 mg/L		01/04/23 13:43	01/05/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135			01/04/23 13:43	01/05/23 12:30	1
o-Terphenyl	92		70 - 135			01/04/23 13:43	01/05/23 12:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.3		0.500	0.200 mg/L			12/31/22 01:36	1
Nitrate as N	0.211		0.100	0.0391 mg/L			12/31/22 01:36	1
Fluoride	0.555		0.500	0.100 mg/L			12/31/22 01:36	1
Nitrite as N	0.310		0.100	0.0293 mg/L			12/31/22 01:36	1
Sulfate	33.4		0.500	0.109 mg/L			12/31/22 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	409		4.00	4.00 mg/L			12/31/22 13:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	409		4.00	4.00 mg/L			12/31/22 13:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			12/31/22 13:10	1
Carbon dioxide (SM 4500 CO2 D)	425			mg/L			01/03/23 15:54	1

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Client Sample Results

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

Job ID: 880-23169-1

Client Sample ID: MW-1

Lab Sample ID: 880-23169-1

Date Collected: 12/29/22 11:50

Matrix: Water

Date Received: 12/29/22 15:32

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	64.9			mg/L			01/03/23 15:54	1
pH (SM 4500 H+ B)	7.1	HF		SU			12/30/22 15:59	1
Temperature (SM 4500 H+ B)	16.7	HF		Degrees C			12/30/22 15:59	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495 mg/L			01/03/23 17:17	1

Client Sample ID: MW-2

Lab Sample ID: 880-23169-2

Date Collected: 12/29/22 12:55

Matrix: Water

Date Received: 12/29/22 15:32

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0189		0.00100	0.000533 mg/L			12/30/22 12:39	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/30/22 12:39	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/30/22 12:39	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/30/22 12:39	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/30/22 12:39	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/30/22 12:39	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/30/22 12:39	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/30/22 12:39	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/30/22 12:39	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/30/22 12:39	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/30/22 12:39	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/30/22 12:39	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/30/22 12:39	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/30/22 12:39	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/30/22 12:39	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/30/22 12:39	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/30/22 12:39	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 12:39	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/30/22 12:39	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/30/22 12:39	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 12:39	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 12:39	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 12:39	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/30/22 12:39	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/30/22 12:39	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/30/22 12:39	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/30/22 12:39	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/30/22 12:39	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/30/22 12:39	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/30/22 12:39	1
Ethylbenzene	0.0148		0.00100	0.000411 mg/L			12/30/22 12:39	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/30/22 12:39	1
Isopropylbenzene	0.00533		0.00100	0.000613 mg/L			12/30/22 12:39	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/30/22 12:39	1
m,p-Xylenes	0.0583		0.0100	0.00124 mg/L			12/30/22 12:39	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/30/22 12:39	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/30/22 12:39	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 12:39	1

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Client Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-23169-2

Date Collected: 12/29/22 12:55

Matrix: Water

Date Received: 12/29/22 15:32

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.00143		0.00100	0.000498 mg/L			12/30/22 12:39	1
o-Xylene	0.0109		0.00100	0.000551 mg/L			12/30/22 12:39	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 12:39	1
sec-Butylbenzene	0.000482	J	0.00100	0.000468 mg/L			12/30/22 12:39	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/30/22 12:39	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/30/22 12:39	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 12:39	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/30/22 12:39	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/30/22 12:39	1
Toluene	0.00554		0.00100	0.000475 mg/L			12/30/22 12:39	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			12/30/22 12:39	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 12:39	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/30/22 12:39	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/30/22 12:39	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/30/22 12:39	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/30/22 12:39	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/30/22 12:39	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/30/22 12:39	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/30/22 12:39	1
1,2,4-Trimethylbenzene	0.0130		0.00100	0.000417 mg/L			12/30/22 12:39	1
1,3,5-Trimethylbenzene	0.00340		0.00100	0.000456 mg/L			12/30/22 12:39	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/30/22 12:39	1
Xylenes, Total	0.0692		0.0100	0.00124 mg/L			12/30/22 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		12/30/22 12:39	1
Dibromofluoromethane (Surr)	100		75 - 131		12/30/22 12:39	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		12/30/22 12:39	1
Toluene-d8 (Surr)	97		80 - 117		12/30/22 12:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.923	U	4.67	0.923 mg/L			01/03/23 22:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.923	U	4.67	0.923	mg/L		01/04/23 13:43	01/05/23 12:50	1
Diesel Range Organics (Over C10-C28)	<0.923	U	4.67	0.923	mg/L		01/04/23 13:43	01/05/23 12:50	1
Oil Range Organics (Over C28-C36)	<0.891	U	4.67	0.891	mg/L		01/04/23 13:43	01/05/23 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135				01/04/23 13:43	01/05/23 12:50	1
o-Terphenyl	100		70 - 135				01/04/23 13:43	01/05/23 12:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		0.500	0.200 mg/L			12/31/22 01:49	1
Nitrate as N	0.527		0.100	0.0391 mg/L			12/31/22 01:49	1
Fluoride	0.114	J	0.500	0.100 mg/L			12/31/22 01:49	1

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Client Sample Results

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

Job ID: 880-23169-1

Client Sample ID: MW-2
Date Collected: 12/29/22 12:55
Date Received: 12/29/22 15:32

Lab Sample ID: 880-23169-2
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.338		0.100	0.0293	mg/L			12/31/22 01:49	1
Sulfate	95.6		0.500	0.109	mg/L			12/31/22 01:49	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1250		4.00	4.00	mg/L			12/31/22 13:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1250		4.00	4.00	mg/L			12/31/22 13:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			12/31/22 13:26	1
Carbon dioxide (SM 4500 CO2 D)	1890				mg/L			01/03/23 15:54	1
Carbon Dioxide, Free (SM 4500 CO2 D)	789				mg/L			01/03/23 15:54	1
pH (SM 4500 H+ B)	6.5	HF			SU			12/30/22 16:03	1
Temperature (SM 4500 H+ B)	17.3	HF			Degrees C			12/30/22 16:03	1
Sulfide (SM 4500 S2 F)	<0.495	U	5.00	0.495	mg/L			01/03/23 17:17	1

Surrogate Summary

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

Job ID: 880-23169-1

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 (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
880-23169-1	MW-1	103	99	101	99
880-23169-2	MW-2	97	100	104	97
LCS 860-83894/3	Lab Control Sample	99	101	102	98
LCSD 860-83894/4	Lab Control Sample Dup	99	100	101	99
MB 860-83894/9	Method Blank	102	98	101	99
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)
880-23169-1	MW-1	83	92
880-23169-2	MW-2	87	100
LCS 860-84355/2-A	Lab Control Sample	81	95
LCSD 860-84355/3-A	Lab Control Sample Dup	77	89
MB 860-84355/1-A	Method Blank	78	91
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-83894/9

Matrix: Water

Analysis Batch: 83894

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			12/30/22 10:57	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			12/30/22 10:57	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			12/30/22 10:57	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			12/30/22 10:57	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			12/30/22 10:57	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			12/30/22 10:57	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			12/30/22 10:57	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			12/30/22 10:57	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			12/30/22 10:57	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			12/30/22 10:57	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			12/30/22 10:57	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			12/30/22 10:57	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			12/30/22 10:57	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			12/30/22 10:57	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			12/30/22 10:57	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			12/30/22 10:57	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			12/30/22 10:57	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 10:57	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			12/30/22 10:57	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			12/30/22 10:57	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 10:57	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			12/30/22 10:57	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 10:57	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			12/30/22 10:57	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			12/30/22 10:57	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			12/30/22 10:57	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			12/30/22 10:57	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			12/30/22 10:57	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			12/30/22 10:57	1
1,1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			12/30/22 10:57	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			12/30/22 10:57	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			12/30/22 10:57	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			12/30/22 10:57	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			12/30/22 10:57	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			12/30/22 10:57	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			12/30/22 10:57	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			12/30/22 10:57	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 10:57	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			12/30/22 10:57	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			12/30/22 10:57	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			12/30/22 10:57	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			12/30/22 10:57	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			12/30/22 10:57	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			12/30/22 10:57	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			12/30/22 10:57	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			12/30/22 10:57	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			12/30/22 10:57	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			12/30/22 10:57	1

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QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-83894/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 83894

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			12/30/22 10:57	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			12/30/22 10:57	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			12/30/22 10:57	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			12/30/22 10:57	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			12/30/22 10:57	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			12/30/22 10:57	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			12/30/22 10:57	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			12/30/22 10:57	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			12/30/22 10:57	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			12/30/22 10:57	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			12/30/22 10:57	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			12/30/22 10:57	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			12/30/22 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		12/30/22 10:57	1
Dibromofluoromethane (Surr)	98		75 - 131		12/30/22 10:57	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		12/30/22 10:57	1
Toluene-d8 (Surr)	99		80 - 117		12/30/22 10:57	1

Lab Sample ID: LCS 860-83894/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 83894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04572		mg/L		91	75 - 125
Bromobenzene	0.0500	0.04602		mg/L		92	75 - 125
Bromochloromethane	0.0500	0.04832		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04582		mg/L		92	75 - 125
Bromoform	0.0500	0.04169		mg/L		83	70 - 130
Bromomethane	0.0500	0.03661		mg/L		73	60 - 140
2-Butanone	0.250	0.2194		mg/L		88	60 - 140
Carbon tetrachloride	0.0500	0.04503		mg/L		90	70 - 130
Chlorobenzene	0.0500	0.04535		mg/L		91	65 - 135
Chloroethane	0.0500	0.04360		mg/L		87	60 - 140
Chloroform	0.0500	0.04638		mg/L		93	70 - 121
Chloromethane	0.0500	0.05093		mg/L		102	60 - 140
2-Chlorotoluene	0.0500	0.04525		mg/L		91	73 - 125
4-Chlorotoluene	0.0500	0.04562		mg/L		91	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04753		mg/L		95	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04652		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04346		mg/L		87	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04115		mg/L		82	59 - 125
1,2-Dibromoethane	0.0500	0.04475		mg/L		89	73 - 125
1,2-Dichlorobenzene	0.0500	0.04621		mg/L		92	75 - 125
1,3-Dichlorobenzene	0.0500	0.04607		mg/L		92	75 - 125
1,4-Dichlorobenzene	0.0500	0.04599		mg/L		92	75 - 125
Dichlorodifluoromethane	0.0500	0.05444		mg/L		109	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-83894/3

Matrix: Water

Analysis Batch: 83894

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	0.04691		mg/L		94	70 - 130
1,2-Dichloroethane	0.0500	0.04882		mg/L		98	72 - 130
1,1-Dichloroethene	0.0500	0.04711		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.04721		mg/L		94	74 - 125
1,3-Dichloropropane	0.0500	0.04523		mg/L		90	75 - 125
2,2-Dichloropropane	0.0500	0.04604		mg/L		92	75 - 125
1,1-Dichloropropene	0.0500	0.04625		mg/L		93	75 - 125
Ethylbenzene	0.0500	0.04545		mg/L		91	75 - 125
Hexachlorobutadiene	0.0500	0.04789		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04519		mg/L		90	75 - 125
Methylene Chloride	0.0500	0.04500		mg/L		90	75 - 125
m,p-Xylenes	0.0500	0.04528		mg/L		91	75 - 125
MTBE	0.0500	0.04628		mg/L		93	65 - 135
Naphthalene	0.0500	0.04530		mg/L		91	70 - 130
n-Butylbenzene	0.0500	0.04670		mg/L		93	75 - 125
N-Propylbenzene	0.0500	0.04541		mg/L		91	75 - 125
o-Xylene	0.0500	0.04580		mg/L		92	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04567		mg/L		91	75 - 125
sec-Butylbenzene	0.0500	0.04543		mg/L		91	75 - 125
Styrene	0.0500	0.04607		mg/L		92	75 - 125
tert-Butylbenzene	0.0500	0.04493		mg/L		90	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04514		mg/L		90	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04453		mg/L		89	74 - 125
Tetrachloroethene	0.0500	0.04532		mg/L		91	71 - 125
Toluene	0.0500	0.04510		mg/L		90	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04583		mg/L		92	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04562		mg/L		91	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04660		mg/L		93	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04748		mg/L		95	75 - 135
1,1,1-Trichloroethane	0.0500	0.04597		mg/L		92	70 - 130
1,1,2-Trichloroethane	0.0500	0.04516		mg/L		90	70 - 130
Trichloroethene	0.0500	0.04561		mg/L		91	75 - 135
Trichlorofluoromethane	0.0500	0.04820		mg/L		96	60 - 140
1,2,3-Trichloropropane	0.0500	0.04128		mg/L		83	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04577		mg/L		92	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04534		mg/L		91	60 - 140
Vinyl chloride	0.0500	0.04927		mg/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-83894/4

Matrix: Water

Analysis Batch: 83894

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		
Benzene	0.0500	0.04332		mg/L		87	75 - 125	5	25
Bromobenzene	0.0500	0.04381		mg/L		88	75 - 125	5	25
Bromochloromethane	0.0500	0.04703		mg/L		94	60 - 140	3	25
Bromodichloromethane	0.0500	0.04461		mg/L		89	75 - 125	3	25
Bromoform	0.0500	0.04225		mg/L		84	70 - 130	1	25
Bromomethane	0.0500	0.03386		mg/L		68	60 - 140	8	25
2-Butanone	0.250	0.2216		mg/L		89	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04155		mg/L		83	70 - 130	8	25
Chlorobenzene	0.0500	0.04353		mg/L		87	65 - 135	4	25
Chloroethane	0.0500	0.04033		mg/L		81	60 - 140	8	25
Chloroform	0.0500	0.04420		mg/L		88	70 - 121	5	25
Chloromethane	0.0500	0.04733		mg/L		95	60 - 140	7	25
2-Chlorotoluene	0.0500	0.04249		mg/L		85	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04261		mg/L		85	74 - 125	7	25
cis-1,2-Dichloroethene	0.0500	0.04497		mg/L		90	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.04529		mg/L		91	74 - 125	3	25
Dibromochloromethane	0.0500	0.04328		mg/L		87	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04291		mg/L		86	59 - 125	4	25
1,2-Dibromoethane	0.0500	0.04497		mg/L		90	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04384		mg/L		88	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.04358		mg/L		87	75 - 125	6	25
1,4-Dichlorobenzene	0.0500	0.04367		mg/L		87	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.04809		mg/L		96	70 - 130	12	25
1,1-Dichloroethane	0.0500	0.04436		mg/L		89	70 - 130	6	25
1,2-Dichloroethane	0.0500	0.04757		mg/L		95	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.04341		mg/L		87	50 - 150	8	25
1,2-Dichloropropane	0.0500	0.04502		mg/L		90	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04534		mg/L		91	75 - 125	0	25
2,2-Dichloropropane	0.0500	0.04257		mg/L		85	75 - 125	8	25
1,1-Dichloropropene	0.0500	0.04274		mg/L		85	75 - 125	8	25
Ethylbenzene	0.0500	0.04304		mg/L		86	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.04507		mg/L		90	75 - 125	6	25
Isopropylbenzene	0.0500	0.04276		mg/L		86	75 - 125	6	25
Methylene Chloride	0.0500	0.04314		mg/L		86	75 - 125	4	25
m,p-Xylenes	0.0500	0.04272		mg/L		85	75 - 125	6	25
MTBE	0.0500	0.04581		mg/L		92	65 - 135	1	25
Naphthalene	0.0500	0.04702		mg/L		94	70 - 130	4	25
n-Butylbenzene	0.0500	0.04333		mg/L		87	75 - 125	7	25
N-Propylbenzene	0.0500	0.04224		mg/L		84	75 - 125	7	25
o-Xylene	0.0500	0.04363		mg/L		87	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04253		mg/L		85	75 - 125	7	25
sec-Butylbenzene	0.0500	0.04216		mg/L		84	75 - 125	7	25
Styrene	0.0500	0.04395		mg/L		88	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04197		mg/L		84	75 - 125	7	25
1,1,1,2-Tetrachloroethane	0.0500	0.04392		mg/L		88	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.04488		mg/L		90	74 - 125	1	25
Tetrachloroethene	0.0500	0.04251		mg/L		85	71 - 125	6	25
Toluene	0.0500	0.04298		mg/L		86	70 - 130	5	25

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QC Sample Results

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

Job ID: 880-23169-1

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

Lab Sample ID: LCSD 860-83894/4

Matrix: Water

Analysis Batch: 83894

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	0.04347		mg/L		87	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04477		mg/L		90	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04702		mg/L		94	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.04655		mg/L		93	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04286		mg/L		86	70 - 130	7	25
1,1,2-Trichloroethane	0.0500	0.04513		mg/L		90	70 - 130	0	25
Trichloroethene	0.0500	0.04292		mg/L		86	75 - 135	6	25
Trichlorofluoromethane	0.0500	0.04356		mg/L		87	60 - 140	10	25
1,2,3-Trichloropropane	0.0500	0.04128		mg/L		83	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.04295		mg/L		86	75 - 125	6	25
1,3,5-Trimethylbenzene	0.0500	0.04224		mg/L		84	60 - 140	7	25
Vinyl chloride	0.0500	0.04523		mg/L		90	60 - 140	9	25

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

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

Lab Sample ID: MB 860-84355/1-A

Matrix: Water

Analysis Batch: 84373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84355

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		01/04/23 13:43	01/04/23 18:30	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/04/23 13:43	01/04/23 18:30	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/04/23 13:43	01/04/23 18:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135	01/04/23 13:43	01/04/23 18:30	1
o-Terphenyl	91		70 - 135	01/04/23 13:43	01/04/23 18:30	1

Lab Sample ID: LCS 860-84355/2-A

Matrix: Water

Analysis Batch: 84373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84355

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QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-84355/3-A

Matrix: Water

Analysis Batch: 84373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	126.0		mg/L		126	70 - 135	4	35
Diesel Range Organics (Over C10-C28)	99.9	100.6		mg/L		101	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	77		70 - 135						
o-Terphenyl	89		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-84010/3

Matrix: Water

Analysis Batch: 84010

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			12/30/22 19:53	1
Fluoride	<0.100	U	0.500	mg/L			12/30/22 19:53	1
Sulfate	<0.109	U	0.500	mg/L			12/30/22 19:53	1

Lab Sample ID: LCS 860-84010/4

Matrix: Water

Analysis Batch: 84010

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	9.664		mg/L		97	90 - 110
Fluoride	10.0	9.829		mg/L		98	90 - 110
Sulfate	10.0	9.447		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-84010/5

Matrix: Water

Analysis Batch: 84010

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	9.681		mg/L		97	90 - 110	0	20
Fluoride	10.0	9.857		mg/L		99	90 - 110	0	20
Sulfate	10.0	9.450		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-84010/7

Matrix: Water

Analysis Batch: 84010

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	0.5215		mg/L		104	50 - 150
Fluoride	0.500	0.4584	J	mg/L		92	50 - 150
Sulfate	0.500	0.5538		mg/L		111	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-84011/3

Matrix: Water

Analysis Batch: 84011

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			12/30/22 19:53	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			12/30/22 19:53	1

Lab Sample ID: LCS 860-84011/4

Matrix: Water

Analysis Batch: 84011

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	9.561		mg/L		96	80 - 120
Nitrite as N	10.0	9.574		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-84011/5

Matrix: Water

Analysis Batch: 84011

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	9.555		mg/L		96	80 - 120	0	20
Nitrite as N	10.0	9.594		mg/L		96	80 - 120	0	20

Lab Sample ID: LLCS 860-84011/6

Matrix: Water

Analysis Batch: 84011

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	0.1201		mg/L		120	50 - 150
Nitrite as N	0.100	0.1012		mg/L		101	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-84113/3

Matrix: Water

Analysis Batch: 84113

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			12/31/22 10:25	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/31/22 10:25	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			12/31/22 10:25	1

Lab Sample ID: LCS 860-84113/4

Matrix: Water

Analysis Batch: 84113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	254.8		mg/L		102	85 - 115

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QC Sample Results

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-84113/5

Matrix: Water

Analysis Batch: 84214

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	261.6		mg/L		105	85 - 115	3	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-84214/1

Matrix: Water

Analysis Batch: 84214

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			01/03/23 17:17	1

Lab Sample ID: LCS 860-84214/2

Matrix: Water

Analysis Batch: 84214

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	51.4	46.00		mg/L		90	80 - 120

Lab Sample ID: LCSD 860-84214/3

Matrix: Water

Analysis Batch: 84214

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	51.4	46.00		mg/L		90	80 - 120	0	20

Lab Sample ID: 880-23169-1 MS

Matrix: Water

Analysis Batch: 84214

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	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.20		mg/L		90	80 - 120		

Lab Sample ID: 880-23169-1 MSD

Matrix: Water

Analysis Batch: 84214

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	51.4	46.20		mg/L		90	80 - 120	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 83894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	8260C	
880-23169-2	MW-2	Total/NA	Water	8260C	
MB 860-83894/9	Method Blank	Total/NA	Water	8260C	
LCS 860-83894/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-83894/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	8015 NM	
880-23169-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 84355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-23169-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-84355/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-84355/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-84355/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 84373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-84355/1-A	Method Blank	Total/NA	Water	8015B NM	84355
LCS 860-84355/2-A	Lab Control Sample	Total/NA	Water	8015B NM	84355
LCSD 860-84355/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	84355

Analysis Batch: 84489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	8015B NM	84355
880-23169-2	MW-2	Total/NA	Water	8015B NM	84355

HPLC/IC

Analysis Batch: 84010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	300.0	
880-23169-2	MW-2	Total/NA	Water	300.0	
MB 860-84010/3	Method Blank	Total/NA	Water	300.0	
LCS 860-84010/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-84010/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-84010/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 84011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	300.0	
880-23169-2	MW-2	Total/NA	Water	300.0	
MB 860-84011/3	Method Blank	Total/NA	Water	300.0	
LCS 860-84011/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-84011/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-84011/6	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-23169-1

Project/Site: South Hobbs - 03B1417002

General Chemistry

Analysis Batch: 84023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-23169-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 84113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	SM 2320B	
880-23169-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-84113/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-84113/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-84113/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 84197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-23169-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 84214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23169-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-23169-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-84214/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-84214/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-84214/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-23169-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-23169-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-23169-1

Client Sample ID: MW-1

Date Collected: 12/29/22 11:50

Date Received: 12/29/22 15:32

Lab Sample ID: 880-23169-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	83894	AN	EET HOU	12/30/22 12:19
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	01/03/23 22:44
Total/NA	Prep	8015NM Aq Prep			84355	SAR	EET HOU	01/04/23 13:43
Total/NA	Analysis	8015B NM		1	84489	SAR	EET HOU	01/05/23 12:30
Total/NA	Analysis	300.0		1	84010	RBNS	EET HOU	12/31/22 01:36
Total/NA	Analysis	300.0		1	84011	RBNS	EET HOU	12/31/22 01:36
Total/NA	Analysis	SM 2320B		1	84113	TL	EET HOU	12/31/22 13:10
Total/NA	Analysis	SM 4500 CO2 D		1	84197	AA	EET HOU	01/03/23 15:54
Total/NA	Analysis	SM 4500 H+ B		1	84023	TL	EET HOU	12/30/22 15:59
Total/NA	Analysis	SM 4500 S2 F		1	84214	SCI	EET HOU	01/03/23 17:17

Client Sample ID: MW-2

Date Collected: 12/29/22 12:55

Date Received: 12/29/22 15:32

Lab Sample ID: 880-23169-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	83894	AN	EET HOU	12/30/22 12:39
Total/NA	Analysis	8015 NM		1	80443	DD	EET HOU	01/03/23 22:44
Total/NA	Prep	8015NM Aq Prep			84355	SAR	EET HOU	01/04/23 13:43
Total/NA	Analysis	8015B NM		1	84489	SAR	EET HOU	01/05/23 12:50
Total/NA	Analysis	300.0		1	84010	RBNS	EET HOU	12/31/22 01:49
Total/NA	Analysis	300.0		1	84011	RBNS	EET HOU	12/31/22 01:49
Total/NA	Analysis	SM 2320B		1	84113	TL	EET HOU	12/31/22 13:26
Total/NA	Analysis	SM 4500 CO2 D		1	84197	AA	EET HOU	01/03/23 15:54
Total/NA	Analysis	SM 4500 H+ B		1	84023	TL	EET HOU	12/30/22 16:03
Total/NA	Analysis	SM 4500 S2 F		1	84214	SCI	EET HOU	01/03/23 17:17

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: 880-23169-1

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	T104704215-22-48	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: 880-23169-1

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: 880-23169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23169-1	MW-1	Water	12/29/22 11:50	12/29/22 15:32
880-23169-2	MW-2	Water	12/29/22 12:55	12/29/22 15:32

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



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)

880-23169 Chain of Custody

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

[illegible]

Total 200.7 / 6010	200.8 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>		TC1P	/	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.																																	
1631 / 245.1 / 7470 / 7471 Hg																																	

Revised Date 051418 Rev 2018

eurofins | Environment Testing
TestAmerica

1000078

Custody Seal
DATE 12-29-22
SIGNATURE [Signature]

eurofins | Environment Testing
TestAmerica

1000078

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Test 1

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-23169-1

Login Number: 23169

List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

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").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-23169-1

Login Number: 23169

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Houston

List Creation: 12/30/22 11:17 AM

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



ANALYTICAL REPORT

December 13, 2022

Ensolum, LLC

Sample Delivery Group: L1565509

Samples Received: 12/08/2022

Project Number: 03B1417001

Description: 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 L1565509-01	9	⁶ Sr
LEVEY WELL L1565509-02	11	
LEVEY WELL L1565509-03	13	⁷ Qc
LEVEY WELL L1565509-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	23	
Al: Accreditations & Locations	24	¹⁰ Sc
Sc: Sample Chain of Custody	25	

LEVEY WELL L1565509-01 Air

Collected by
Shane Diller

Collected date/time
12/05/22 12:07

Received date/time
12/08/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1971924	100	12/09/22 22:38	12/09/22 22:38	DAH	Mt. Juliet, TN

¹Cp

²Tc

LEVEY WELL L1565509-02 Air

Collected by
Shane Diller

Collected date/time
12/05/22 13:27

Received date/time
12/08/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1971924	100	12/09/22 23:17	12/09/22 23:17	DAH	Mt. Juliet, TN

³Ss

⁴Cn

⁵Tr

LEVEY WELL L1565509-03 Air

Collected by
Shane Diller

Collected date/time
12/05/22 14:27

Received date/time
12/08/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1971924	100	12/09/22 23:56	12/09/22 23:56	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1972396	5000	12/11/22 01:16	12/11/22 01:16	DBB	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1972967	2000	12/12/22 22:58	12/12/22 22:58	SDS	Mt. Juliet, TN

⁶Sr

⁷Qc

⁸Gl

LEVEY WELL L1565509-04 Air

Collected by
Shane Diller

Collected date/time
12/05/22 15:27

Received date/time
12/08/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1971924	100	12/10/22 00:35	12/10/22 00:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1972396	1000	12/11/22 01:57	12/11/22 01:57	DBB	Mt. Juliet, TN

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.



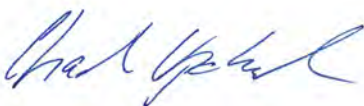
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 12/13/2022 11:54					
Project Name: Levey Well		Laboratory Job Number: L1565509-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1971924, WG1972396 and WG1972967					
# 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: 12/13/2022 11:54				
Project Name: Levey Well			Laboratory Job Number: L1565509-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1971924, WG1972396 and WG1972967				
# 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: 12/13/2022 11:54	
Project Name: Levey Well		Laboratory Job Number: L1565509-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1971924, WG1972396 and WG1972967	
ER #¹	Description		
1	TO-15 WG1971924 Bromomethane, 1,3-Butadiene, Chloroethane, Trichlorofluoromethane, Hexachloro-1,3-butadiene, 1,2,4-Trichlorobenzene, Vinyl chloride, Vinyl Bromide: 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: 12/05/22 12:07

L1565509

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1971924
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1971924
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1971924
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1971924
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1971924
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1971924
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1971924
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1971924
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1971924
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1971924
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1971924
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1971924
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1971924
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1971924
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1971924
Cyclohexane	110-82-7	84.20	20.0	68.9	295	1020		100	WG1971924
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1971924
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1971924
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1971924
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1971924
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1971924
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1971924
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1971924
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1971924
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1971924
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1971924
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1971924
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1971924
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1971924
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1971924
Ethanol	64-17-5	46.10	125	236	2980	5620		100	WG1971924
Ethylbenzene	100-41-4	106	20.0	86.7	279	1210		100	WG1971924
4-Ethyltoluene	622-96-8	120	20.0	98.2	80.0	393		100	WG1971924
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1971924
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1971924
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1971924
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1971924
Heptane	142-82-5	100	20.0	81.8	829	3390		100	WG1971924
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1971924
n-Hexane	110-54-3	86.20	63.0	222	2510	8850		100	WG1971924
Isopropylbenzene	98-82-8	120.20	20.0	98.3	27.5	135		100	WG1971924
Methylene Chloride	75-09-2	84.90	20.0	69.4	125	434		100	WG1971924
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1971924
2-Butanone (MEK)	78-93-3	72.10	125	369	152	448		100	WG1971924
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1971924
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1971924
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1971924
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1971924
2-Propanol	67-63-0	60.10	125	307	7110	17500		100	WG1971924
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1971924
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1971924
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1971924
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1971924
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1971924
Toluene	108-88-3	92.10	50.0	188	107	403		100	WG1971924
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1971924

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 12:07

L1565509

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	WG1971924
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1971924
Trichloroethylene	79-01-6	131	20.0	107	25.9	139		100	WG1971924
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	227	1110		100	WG1971924
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	71.6	351		100	WG1971924
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1971924
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1971924
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1971924
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1971924
m&p-Xylene	1330-20-7	106	40.0	173	528	2290		100	WG1971924
o-Xylene	95-47-6	106	20.0	86.7	68.1	295		100	WG1971924
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	28000	116000		100	WG1971924
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.9				WG1971924

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 13:27

L1565509

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1971924
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1971924
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1971924
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1971924
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1971924
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1971924
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1971924
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1971924
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1971924
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1971924
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1971924
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1971924
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1971924
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1971924
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1971924
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG1971924
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1971924
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1971924
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1971924
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1971924
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1971924
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1971924
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1971924
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1971924
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1971924
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1971924
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1971924
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1971924
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1971924
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1971924
Ethanol	64-17-5	46.10	125	236	2860	5390		100	WG1971924
Ethylbenzene	100-41-4	106	20.0	86.7	127	551		100	WG1971924
4-Ethyltoluene	622-96-8	120	20.0	98.2	70.4	346		100	WG1971924
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1971924
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1971924
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1971924
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1971924
Heptane	142-82-5	100	20.0	81.8	346	1420		100	WG1971924
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1971924
n-Hexane	110-54-3	86.20	63.0	222	1400	4940		100	WG1971924
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1971924
Methylene Chloride	75-09-2	84.90	20.0	69.4	104	361		100	WG1971924
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1971924
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG1971924
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1971924
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1971924
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1971924
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1971924
2-Propanol	67-63-0	60.10	125	307	6470	15900		100	WG1971924
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1971924
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1971924
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1971924
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1971924
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1971924
Toluene	108-88-3	92.10	50.0	188	67.9	256		100	WG1971924
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1971924

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 13:27

L1565509

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	WG1971924
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1971924
Trichloroethylene	79-01-6	131	20.0	107	35.7	191		100	WG1971924
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	125	613		100	WG1971924
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	36.1	177		100	WG1971924
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1971924
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1971924
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1971924
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1971924
m&p-Xylene	1330-20-7	106	40.0	173	255	1110		100	WG1971924
o-Xylene	95-47-6	106	20.0	86.7	36.2	157		100	WG1971924
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG1971924
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.4				WG1971924

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 14:27

L1565509

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1971924
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1971924
Benzene	71-43-2	78.10	400	1280	ND	ND		2000	WG1972967
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1971924
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1971924
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1971924
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1971924
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1971924
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1971924
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1971924
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1971924
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1971924
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1971924
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1971924
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1971924
Cyclohexane	110-82-7	84.20	1000	3440	1300	4480		5000	WG1972396
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1971924
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1971924
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1971924
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1971924
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1971924
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1971924
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1971924
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1971924
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1971924
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1971924
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1971924
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1971924
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1971924
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1971924
Ethanol	64-17-5	46.10	125	236	3340	6300		100	WG1971924
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG1972967
4-Ethyltoluene	622-96-8	120	20.0	98.2	4350	21300		100	WG1971924
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1971924
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1971924
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1971924
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1971924
Heptane	142-82-5	100	1000	4090	1010	4130		5000	WG1972396
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1971924
n-Hexane	110-54-3	86.20	3150	11100	47000	166000		5000	WG1972396
Isopropylbenzene	98-82-8	120.20	20.0	98.3	1220	6000		100	WG1971924
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1971924
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1971924
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG1971924
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1971924
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1971924
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1971924
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1971924
2-Propanol	67-63-0	60.10	125	307	5190	12800		100	WG1971924
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1971924
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1971924
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1971924
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1971924
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1971924
Toluene	108-88-3	92.10	2500	9420	ND	ND		5000	WG1972396
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1971924

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 14:27

L1565509

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	WG1971924
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1971924
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1971924
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	5090	25000		100	WG1971924
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	1760	8640		100	WG1971924
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1971924
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1971924
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1971924
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1971924
m&p-Xylene	1330-20-7	106	2000	8670	ND	ND		5000	WG1972396
o-Xylene	95-47-6	106	20.0	86.7	3580	15500		100	WG1971924
TPH (GC/MS) Low Fraction	8006-61-9	101	1000000	4130000	ND	ND		5000	WG1972396
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		117				WG1971924
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.3				WG1972396
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.8				WG1972967

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 15:27

L1565509

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1971924
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1971924
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1971924
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1971924
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1971924
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1971924
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1971924
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1971924
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1971924
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1971924
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1971924
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1971924
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1971924
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1971924
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1971924
Cyclohexane	110-82-7	84.20	20.0	68.9	2030	6990		100	WG1971924
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1971924
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1971924
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1971924
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1971924
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1971924
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1971924
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1971924
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1971924
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1971924
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1971924
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1971924
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1971924
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1971924
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1971924
Ethanol	64-17-5	46.10	125	236	3280	6180		100	WG1971924
Ethylbenzene	100-41-4	106	20.0	86.7	81.2	352		100	WG1971924
4-Ethyltoluene	622-96-8	120	20.0	98.2	29.3	144		100	WG1971924
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1971924
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1971924
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1971924
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1971924
Heptane	142-82-5	100	20.0	81.8	4370	17900		100	WG1971924
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1971924
n-Hexane	110-54-3	86.20	630	2220	18200	64200		1000	WG1972396
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1971924
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1971924
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1971924
2-Butanone (MEK)	78-93-3	72.10	125	369	291	858		100	WG1971924
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1971924
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1971924
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1971924
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1971924
2-Propanol	67-63-0	60.10	125	307	9440	23200		100	WG1971924
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1971924
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1971924
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1971924
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1971924
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1971924
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG1971924
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1971924

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/05/22 15:27

L1565509

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	WG1971924
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1971924
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1971924
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	83.3	409		100	WG1971924
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	28.3	139		100	WG1971924
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1971924
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1971924
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1971924
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1971924
m&p-Xylene	1330-20-7	106	40.0	173	166	720		100	WG1971924
o-Xylene	95-47-6	106	20.0	86.7	26.2	114		100	WG1971924
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	102000	421000		100	WG1971924
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.3				WG1971924
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.7				WG1972396

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3870369-2 12/09/22 09:15

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3870369-2 12/09/22 09:15

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	92.4			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3870369-1 12/09/22 08:36 • (LCSD) R3870369-3 12/10/22 06:29

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	3.94	3.55	105	94.7	70.0-130			10.4	25
Allyl Chloride	3.75	3.73	3.65	99.5	97.3	70.0-130			2.17	25
Benzene	3.75	3.75	3.58	100	95.5	70.0-130			4.64	25
Benzyl Chloride	3.75	4.43	4.99	118	133	70.0-152			11.9	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3870369-1 12/09/22 08:36 • (LCSD) R3870369-3 12/10/22 06:29

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.89	3.67	104	97.9	70.0-130			5.82	25
Bromoform	3.75	3.83	4.38	102	117	70.0-130			13.4	25
Bromomethane	3.75	4.61	3.45	123	92.0	70.0-130		J3	28.8	25
1,3-Butadiene	3.75	4.52	3.28	121	87.5	70.0-130		J3	31.8	25
Carbon disulfide	3.75	3.74	3.54	99.7	94.4	70.0-130			5.49	25
Carbon tetrachloride	3.75	3.89	3.82	104	102	70.0-130			1.82	25
Chlorobenzene	3.75	3.78	3.77	101	101	70.0-130			0.265	25
Chloroethane	3.75	4.87	3.52	130	93.9	70.0-130		J3	32.2	25
Chloroform	3.75	3.78	3.50	101	93.3	70.0-130			7.69	25
Chloromethane	3.75	3.81	3.12	102	83.2	70.0-130			19.9	25
2-Chlorotoluene	3.75	4.02	3.76	107	100	70.0-130			6.68	25
Cyclohexane	3.75	3.73	3.45	99.5	92.0	70.0-130			7.80	25
Dibromochloromethane	3.75	3.74	3.93	99.7	105	70.0-130			4.95	25
1,2-Dibromoethane	3.75	3.82	3.84	102	102	70.0-130			0.522	25
1,2-Dichlorobenzene	3.75	3.95	4.47	105	119	70.0-130			12.4	25
1,3-Dichlorobenzene	3.75	4.07	4.55	109	121	70.0-130			11.1	25
1,4-Dichlorobenzene	3.75	4.16	4.55	111	121	70.0-130			8.96	25
1,2-Dichloroethane	3.75	4.04	3.73	108	99.5	70.0-130			7.98	25
1,1-Dichloroethane	3.75	3.83	3.44	102	91.7	70.0-130			10.7	25
1,1-Dichloroethene	3.75	3.96	3.58	106	95.5	70.0-130			10.1	25
cis-1,2-Dichloroethene	3.75	3.81	3.40	102	90.7	70.0-130			11.4	25
trans-1,2-Dichloroethene	3.75	3.83	3.48	102	92.8	70.0-130			9.58	25
1,2-Dichloropropane	3.75	3.77	3.45	101	92.0	70.0-130			8.86	25
cis-1,3-Dichloropropene	3.75	3.75	3.69	100	98.4	70.0-130			1.61	25
trans-1,3-Dichloropropene	3.75	3.80	3.70	101	98.7	70.0-130			2.67	25
1,4-Dioxane	3.75	3.61	3.75	96.3	100	70.0-140			3.80	25
Ethanol	3.75	3.90	3.67	104	97.9	55.0-148			6.08	25
Ethylbenzene	3.75	3.73	3.78	99.5	101	70.0-130			1.33	25
4-Ethyltoluene	3.75	4.01	4.15	107	111	70.0-130			3.43	25
Trichlorofluoromethane	3.75	4.81	3.65	128	97.3	70.0-130		J3	27.4	25
Dichlorodifluoromethane	3.75	4.02	3.38	107	90.1	64.0-139			17.3	25
1,1,2-Trichlorotrifluoroethane	3.75	3.79	3.83	101	102	70.0-130			1.05	25
1,2-Dichlorotetrafluoroethane	3.75	3.88	3.31	103	88.3	70.0-130			15.9	25
Heptane	3.75	3.98	3.57	106	95.2	70.0-130			10.9	25
Hexachloro-1,3-butadiene	3.75	3.72	5.11	99.2	136	70.0-151		J3	31.5	25
n-Hexane	3.75	3.69	3.31	98.4	88.3	70.0-130			10.9	25
Isopropylbenzene	3.75	3.84	3.82	102	102	70.0-130			0.522	25
Methylene Chloride	3.75	3.88	3.37	103	89.9	70.0-130			14.1	25
Methyl Butyl Ketone	3.75	3.95	3.61	105	96.3	70.0-149			8.99	25
Methyl Ethyl Ketone	3.75	3.65	3.66	97.3	97.6	70.0-130			0.274	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3870369-1 12/09/22 08:36 • (LCSD) R3870369-3 12/10/22 06:29

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.92	3.60	105	96.0	70.0-139			8.51	25
Methyl Methacrylate	3.75	3.65	3.60	97.3	96.0	70.0-130			1.38	25
MTBE	3.75	3.80	3.62	101	96.5	70.0-130			4.85	25
Naphthalene	3.75	4.03	4.67	107	125	70.0-159			14.7	25
2-Propanol	3.75	3.89	3.43	104	91.5	70.0-139			12.6	25
Propene	3.75	4.11	3.40	110	90.7	64.0-144			18.9	25
Styrene	3.75	3.87	3.94	103	105	70.0-130			1.79	25
1,1,2,2-Tetrachloroethane	3.75	3.83	3.76	102	100	70.0-130			1.84	25
Tetrachloroethylene	3.75	3.88	4.41	103	118	70.0-130			12.8	25
Tetrahydrofuran	3.75	3.77	3.37	101	89.9	70.0-137			11.2	25
Toluene	3.75	3.72	3.60	99.2	96.0	70.0-130			3.28	25
1,2,4-Trichlorobenzene	3.75	4.41	5.85	118	156	70.0-160		J3	28.1	25
1,1,1-Trichloroethane	3.75	3.85	3.68	103	98.1	70.0-130			4.52	25
1,1,2-Trichloroethane	3.75	3.76	3.66	100	97.6	70.0-130			2.70	25
Trichloroethylene	3.75	3.70	3.74	98.7	99.7	70.0-130			1.08	25
1,2,4-Trimethylbenzene	3.75	4.14	4.09	110	109	70.0-130			1.22	25
1,3,5-Trimethylbenzene	3.75	4.12	3.90	110	104	70.0-130			5.49	25
2,2,4-Trimethylpentane	3.75	3.82	3.36	102	89.6	70.0-130			12.8	25
Vinyl chloride	3.75	4.60	3.42	123	91.2	70.0-130		J3	29.4	25
Vinyl Bromide	3.75	4.79	3.66	128	97.6	70.0-130		J3	26.7	25
Vinyl acetate	3.75	3.88	3.50	103	93.3	70.0-130			10.3	25
m&p-Xylene	7.50	7.63	7.54	102	101	70.0-130			1.19	25
o-Xylene	3.75	3.76	3.65	100	97.3	70.0-130			2.97	25
TPH (GC/MS) Low Fraction	203	220	238	108	117	70.0-130			7.86	25
(S) 1,4-Bromofluorobenzene				103	98.9	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3870465-3 12/10/22 08:47

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
Toluene	U		0.0870	0.500
m&p-Xylene	U		0.135	0.400
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	92.0			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3870465-1 12/10/22 07:20 • (LCSD) R3870465-2 12/10/22 08:04

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	4.07	4.02	109	107	70.0-130			1.24	25
Heptane	3.75	4.05	4.19	108	112	70.0-130			3.40	25
n-Hexane	3.75	3.96	3.93	106	105	70.0-130			0.760	25
Toluene	3.75	4.29	4.32	114	115	70.0-130			0.697	25
m&p-Xylene	7.50	8.53	8.54	114	114	70.0-130			0.117	25
TPH (GC/MS) Low Fraction	203	227	229	112	113	70.0-130			0.877	25
(S) 1,4-Bromofluorobenzene				94.9	96.2	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1565509-03

Method Blank (MB)

(MB) R3870777-3 12/12/22 11:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Ethylbenzene	U		0.0835	0.200
(S) 1,4-Bromofluorobenzene	94.5			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3870777-1 12/12/22 09:39 • (LCSD) R3870777-2 12/12/22 10:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	3.70	3.74	98.7	99.7	70.0-130			1.08	25
Ethylbenzene	3.75	3.86	3.89	103	104	70.0-130			0.774	25
(S) 1,4-Bromofluorobenzene				96.4	96.6	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J3	The associated batch QC was outside the established quality control range for precision.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

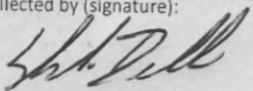
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	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.



Company Name/Address: Ensolum LLC 601 Marion Field #400 MIDLAND TX 79701			Billing Information:			Analysis			Chain of Custody Page <u>1</u> of <u>1</u>  L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 		
Report to: Berx Jennings			Email To: bjennings@ensolum.com			Summary			L # L1565509 M136 Acctnum: ENSOLUNM Template: T180739 Prelogin: P960929 TSR: M.B. Cooler: CSL 11/03/22 Shipped Via:		
Project Levey Well			City/State Hobbs NM								
Description:			Lab Project #								
Phone: Fax:			Client Project # 0381417001								
Collected by (print): SHANE DILLER			Site/Facility ID #								
Collected by (signature): 			Rush? (Lab MUST Be Notified) ☐ Same Day 200% ☐ Next Day 100% ☐ Two Day 50% ☒ Three Day 25%			Date Results Needed			Rem./Contaminant Sample # (lab only)		
Email? ☐ No ☐ Yes			Canister Pressure/Vacuum								
FAX? ☐ No ☐ Yes			P.O. # 0381417001								
Sample ID			Sample Description			Can #					
Date			Time			Initial					
Final			X			X			X		
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X											

12/08/22 - NCF L1565509 ENSOLUMMTX

R3/R4/RX/EX

Time estimate: oh

Time spent: oh

Members

DR Deanna Ramsey (responsible)

CU Chad Upchurch

Jason Romer

Due on 13 December 2022 5:00 PM for target Done

- ☐ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☐ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☐ Chain of Custody is missing
- ☐ If no COC: Received by: _____
- ☐ If no COC: Date/Time: _____
- ☐ If no COC: Temp./Cont.Rec./pH: _____
- ☐ If no COC: Carrier: _____
- ☐ If no COC: Tracking #: _____
- ☐ Client informed by call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: _____
- ☐ PM initials: _____
- ☐ Client Contact: _____

Comments

Deanna Ramsey

8 December 2022 4:53 PM

Client wrote in Summa for the test. what test does it need to be logged for.

Chad Upchurch

9 December 2022 9:56 AM

log all samples for: TO-15

Troy Dunlap

9 December 2022 10:13 AM

Done.



ANALYTICAL REPORT

December 20, 2022

Ensolum, LLC

Sample Delivery Group: L1568089
Samples Received: 12/15/2022
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 L1568089-01	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 L1568089-01 Air

Collected by
Shane Diller

Collected date/time
12/09/22 12:41

Received date/time
12/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1975612	1000	12/16/22 22:10	12/16/22 22:10	DBB	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1977166	10000	12/20/22 12:21	12/20/22 12:21	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

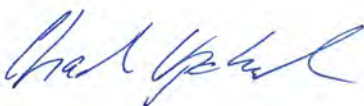
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 12/20/2022 14:43					
Project Name: Levey Well		Laboratory Job Number: L1568089-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1975612 and WG1977166					
# 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: 12/20/2022 14:43					
Project Name: Levey Well		Laboratory Job Number: L1568089-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1975612 and WG1977166					
# 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: 12/20/2022 14:43	
Project Name: Levey Well		Laboratory Job Number: L1568089-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1975612 and WG1977166	
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: 12/09/22 12:41

L1568089

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	ND	ND		1000	WG1975612
Allyl chloride	107-05-1	76.53	200	626	ND	ND		1000	WG1975612
Benzene	71-43-2	78.10	200	639	ND	ND		1000	WG1975612
Benzyl Chloride	100-44-7	127	200	1040	ND	ND		1000	WG1975612
Bromodichloromethane	75-27-4	164	200	1340	9910	66500		1000	WG1975612
Bromoform	75-25-2	253	600	6210	ND	ND		1000	WG1975612
Bromomethane	74-83-9	94.90	200	776	ND	ND		1000	WG1975612
1,3-Butadiene	106-99-0	54.10	2000	4430	ND	ND		1000	WG1975612
Carbon disulfide	75-15-0	76.10	200	622	ND	ND		1000	WG1975612
Carbon tetrachloride	56-23-5	154	200	1260	ND	ND		1000	WG1975612
Chlorobenzene	108-90-7	113	200	924	ND	ND		1000	WG1975612
Chloroethane	75-00-3	64.50	200	528	ND	ND		1000	WG1975612
Chloroform	67-66-3	119	200	973	ND	ND		1000	WG1975612
Chloromethane	74-87-3	50.50	200	413	ND	ND		1000	WG1975612
2-Chlorotoluene	95-49-8	126	200	1030	ND	ND		1000	WG1975612
Cyclohexane	110-82-7	84.20	200	689	46900	162000		1000	WG1975612
Dibromochloromethane	124-48-1	208	200	1700	ND	ND		1000	WG1975612
1,2-Dibromoethane	106-93-4	188	200	1540	ND	ND		1000	WG1975612
1,2-Dichlorobenzene	95-50-1	147	200	1200	ND	ND		1000	WG1975612
1,3-Dichlorobenzene	541-73-1	147	200	1200	ND	ND		1000	WG1975612
1,4-Dichlorobenzene	106-46-7	147	200	1200	ND	ND		1000	WG1975612
1,2-Dichloroethane	107-06-2	99	200	810	ND	ND		1000	WG1975612
1,1-Dichloroethane	75-34-3	98	200	802	ND	ND		1000	WG1975612
1,1-Dichloroethene	75-35-4	96.90	200	793	ND	ND		1000	WG1975612
cis-1,2-Dichloroethene	156-59-2	96.90	200	793	ND	ND		1000	WG1975612
trans-1,2-Dichloroethene	156-60-5	96.90	200	793	ND	ND		1000	WG1975612
1,2-Dichloropropane	78-87-5	113	200	924	ND	ND		1000	WG1975612
cis-1,3-Dichloropropene	10061-01-5	111	200	908	ND	ND		1000	WG1975612
trans-1,3-Dichloropropene	10061-02-6	111	200	908	ND	ND		1000	WG1975612
1,4-Dioxane	123-91-1	88.10	200	721	ND	ND		1000	WG1975612
Ethanol	64-17-5	46.10	1250	2360	4970	9370		1000	WG1975612
Ethylbenzene	100-41-4	106	200	867	ND	ND		1000	WG1975612
4-Ethyltoluene	622-96-8	120	200	982	ND	ND		1000	WG1975612
Trichlorofluoromethane	75-69-4	137.40	200	1120	ND	ND		1000	WG1975612
Dichlorodifluoromethane	75-71-8	120.92	200	989	ND	ND		1000	WG1975612
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	200	1530	ND	ND		1000	WG1975612
1,2-Dichlorotetrafluoroethane	76-14-2	171	200	1400	ND	ND		1000	WG1975612
Heptane	142-82-5	100	200	818	64900	265000		1000	WG1975612
Hexachloro-1,3-butadiene	87-68-3	261	630	6730	ND	ND		1000	WG1975612
n-Hexane	110-54-3	86.20	6300	22200	883000	3110000		10000	WG1977166
Isopropylbenzene	98-82-8	120.20	200	983	ND	ND		1000	WG1975612
Methylene Chloride	75-09-2	84.90	200	694	ND	ND		1000	WG1975612
Methyl Butyl Ketone	591-78-6	100	1250	5110	ND	ND		1000	WG1975612
2-Butanone (MEK)	78-93-3	72.10	1250	3690	2410	7110		1000	WG1975612
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1250	5120	ND	ND		1000	WG1975612
Methyl methacrylate	80-62-6	100.12	200	819	ND	ND		1000	WG1975612
MTBE	1634-04-4	88.10	200	721	ND	ND		1000	WG1975612
Naphthalene	91-20-3	128	630	3300	ND	ND		1000	WG1975612
2-Propanol	67-63-0	60.10	1250	3070	7780	19100		1000	WG1975612
Propene	115-07-1	42.10	1250	2150	ND	ND		1000	WG1975612
Styrene	100-42-5	104	200	851	ND	ND		1000	WG1975612
1,1,2,2-Tetrachloroethane	79-34-5	168	200	1370	ND	ND		1000	WG1975612
Tetrachloroethylene	127-18-4	166	200	1360	ND	ND		1000	WG1975612
Tetrahydrofuran	109-99-9	72.10	200	590	ND	ND		1000	WG1975612
Toluene	108-88-3	92.10	500	1880	ND	ND		1000	WG1975612
1,2,4-Trichlorobenzene	120-82-1	181	630	4660	ND	ND		1000	WG1975612

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/09/22 12:41

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	WG1975612
1,1,2-Trichloroethane	79-00-5	133	200	1090	ND	ND		1000	WG1975612
Trichloroethylene	79-01-6	131	200	1070	ND	ND		1000	WG1975612
1,2,4-Trimethylbenzene	95-63-6	120	200	982	ND	ND		1000	WG1975612
1,3,5-Trimethylbenzene	108-67-8	120	200	982	ND	ND		1000	WG1975612
2,2,4-Trimethylpentane	540-84-1	114.22	200	934	2790	13000		1000	WG1975612
Vinyl chloride	75-01-4	62.50	200	511	ND	ND		1000	WG1975612
Vinyl Bromide	593-60-2	106.95	200	875	ND	ND		1000	WG1975612
Vinyl acetate	108-05-4	86.10	200	704	ND	ND		1000	WG1975612
m&p-Xylene	1330-20-7	106	400	1730	ND	ND		1000	WG1975612
o-Xylene	95-47-6	106	200	867	ND	ND		1000	WG1975612
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	1850000	7640000		1000	WG1975612
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.3				WG1975612
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.9				WG1977166

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3872717-3 12/16/22 10:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.336	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

1

Cp

2

Tc

3

Ss

4

Cn

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Tr

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Sr

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Qc

8

Gl

9

Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1568089-01

Method Blank (MB)

(MB) R3872717-3 12/16/22 10:55

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	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	59.4	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	94.2			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3872717-1 12/16/22 09:52 • (LCSD) R3872717-2 12/16/22 10:25

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	2.98	2.94	79.5	78.4	70.0-130			1.35	25
Allyl Chloride	3.75	2.94	2.95	78.4	78.7	70.0-130			0.340	25
Benzene	3.75	2.99	3.06	79.7	81.6	70.0-130			2.31	25
Benzyl Chloride	3.75	3.25	3.33	86.7	88.8	70.0-152			2.43	25
Bromodichloromethane	3.75	3.02	3.11	80.5	82.9	70.0-130			2.94	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3872717-1 12/16/22 09:52 • (LCSD) R3872717-2 12/16/22 10:25

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 %
Bromoform	3.75	3.16	3.28	84.3	87.5	70.0-130			3.73	25
Bromomethane	3.75	3.05	3.11	81.3	82.9	70.0-130			1.95	25
1,3-Butadiene	3.75	2.98	3.00	79.5	80.0	70.0-130			0.669	25
Carbon disulfide	3.75	2.94	2.97	78.4	79.2	70.0-130			1.02	25
Carbon tetrachloride	3.75	3.07	3.08	81.9	82.1	70.0-130			0.325	25
Chlorobenzene	3.75	3.09	3.11	82.4	82.9	70.0-130			0.645	25
Chloroethane	3.75	3.01	3.05	80.3	81.3	70.0-130			1.32	25
Chloroform	3.75	3.02	3.10	80.5	82.7	70.0-130			2.61	25
Chloromethane	3.75	3.06	3.11	81.6	82.9	70.0-130			1.62	25
2-Chlorotoluene	3.75	3.14	3.27	83.7	87.2	70.0-130			4.06	25
Cyclohexane	3.75	3.00	3.08	80.0	82.1	70.0-130			2.63	25
Dibromochloromethane	3.75	3.16	3.14	84.3	83.7	70.0-130			0.635	25
1,2-Dibromoethane	3.75	3.12	3.13	83.2	83.5	70.0-130			0.320	25
1,2-Dichlorobenzene	3.75	3.24	3.34	86.4	89.1	70.0-130			3.04	25
1,3-Dichlorobenzene	3.75	3.29	3.37	87.7	89.9	70.0-130			2.40	25
1,4-Dichlorobenzene	3.75	3.29	3.39	87.7	90.4	70.0-130			2.99	25
1,2-Dichloroethane	3.75	3.04	3.07	81.1	81.9	70.0-130			0.982	25
1,1-Dichloroethane	3.75	3.02	3.03	80.5	80.8	70.0-130			0.331	25
1,1-Dichloroethene	3.75	2.93	2.98	78.1	79.5	70.0-130			1.69	25
cis-1,2-Dichloroethene	3.75	2.99	3.06	79.7	81.6	70.0-130			2.31	25
trans-1,2-Dichloroethene	3.75	2.93	2.99	78.1	79.7	70.0-130			2.03	25
1,2-Dichloropropane	3.75	2.95	3.05	78.7	81.3	70.0-130			3.33	25
cis-1,3-Dichloropropene	3.75	3.03	3.09	80.8	82.4	70.0-130			1.96	25
trans-1,3-Dichloropropene	3.75	3.04	3.05	81.1	81.3	70.0-130			0.328	25
1,4-Dioxane	3.75	2.75	2.86	73.3	76.3	70.0-140			3.92	25
Ethanol	3.75	3.35	3.34	89.3	89.1	55.0-148			0.299	25
Ethylbenzene	3.75	3.08	3.15	82.1	84.0	70.0-130			2.25	25
4-Ethyltoluene	3.75	3.26	3.35	86.9	89.3	70.0-130			2.72	25
Trichlorofluoromethane	3.75	3.01	3.01	80.3	80.3	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	2.82	2.85	75.2	76.0	64.0-139			1.06	25
1,1,2-Trichlorotrifluoroethane	3.75	2.98	3.02	79.5	80.5	70.0-130			1.33	25
1,2-Dichlorotetrafluoroethane	3.75	3.08	3.14	82.1	83.7	70.0-130			1.93	25
Heptane	3.75	3.05	3.12	81.3	83.2	70.0-130			2.27	25
Hexachloro-1,3-butadiene	3.75	3.11	3.24	82.9	86.4	70.0-151			4.09	25
Isopropylbenzene	3.75	3.15	3.24	84.0	86.4	70.0-130			2.82	25
Methylene Chloride	3.75	2.84	2.89	75.7	77.1	70.0-130			1.75	25
Methyl Butyl Ketone	3.75	2.76	2.81	73.6	74.9	70.0-149			1.80	25
Methyl Ethyl Ketone	3.75	3.04	3.18	81.1	84.8	70.0-130			4.50	25
4-Methyl-2-pentanone (MIBK)	3.75	2.98	3.05	79.5	81.3	70.0-139			2.32	25
Methyl Methacrylate	3.75	3.14	3.14	83.7	83.7	70.0-130			0.000	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1568089-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3872717-1 12/16/22 09:52 • (LCSD) R3872717-2 12/16/22 10:25

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	3.00	3.04	80.0	81.1	70.0-130			1.32	25
Naphthalene	3.75	3.20	3.33	85.3	88.8	70.0-159			3.98	25
2-Propanol	3.75	2.85	2.95	76.0	78.7	70.0-139			3.45	25
Propene	3.75	2.71	2.81	72.3	74.9	64.0-144			3.62	25
Styrene	3.75	3.16	3.28	84.3	87.5	70.0-130			3.73	25
1,1,2,2-Tetrachloroethane	3.75	3.16	3.29	84.3	87.7	70.0-130			4.03	25
Tetrachloroethylene	3.75	3.18	3.18	84.8	84.8	70.0-130			0.000	25
Tetrahydrofuran	3.75	2.93	3.00	78.1	80.0	70.0-137			2.36	25
Toluene	3.75	3.06	3.08	81.6	82.1	70.0-130			0.651	25
1,2,4-Trichlorobenzene	3.75	3.11	3.20	82.9	85.3	70.0-160			2.85	25
1,1,1-Trichloroethane	3.75	3.04	3.09	81.1	82.4	70.0-130			1.63	25
1,1,2-Trichloroethane	3.75	3.11	3.15	82.9	84.0	70.0-130			1.28	25
Trichloroethylene	3.75	3.03	3.06	80.8	81.6	70.0-130			0.985	25
1,2,4-Trimethylbenzene	3.75	3.31	3.39	88.3	90.4	70.0-130			2.39	25
1,3,5-Trimethylbenzene	3.75	3.27	3.35	87.2	89.3	70.0-130			2.42	25
2,2,4-Trimethylpentane	3.75	3.00	3.05	80.0	81.3	70.0-130			1.65	25
Vinyl chloride	3.75	3.00	3.10	80.0	82.7	70.0-130			3.28	25
Vinyl Bromide	3.75	3.03	3.03	80.8	80.8	70.0-130			0.000	25
Vinyl acetate	3.75	2.99	3.03	79.7	80.8	70.0-130			1.33	25
m&p-Xylene	7.50	6.38	6.56	85.1	87.5	70.0-130			2.78	25
o-Xylene	3.75	3.17	3.25	84.5	86.7	70.0-130			2.49	25
TPH (GC/MS) Low Fraction	203	204	209	100	103	70.0-130			2.42	25
(S) 1,4-Bromofluorobenzene				98.7	99.4	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1568089-01

Method Blank (MB)

(MB) R3873888-3 12/20/22 09:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	90.8			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3873888-1 12/20/22 08:26 • (LCSD) R3873888-2 12/20/22 08:56

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	3.92	3.99	105	106	70.0-130			1.77	25
(S) 1,4-Bromofluorobenzene				103	102	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

JThe 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

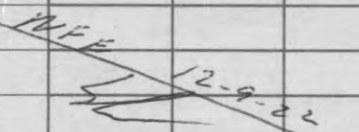
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701		Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>					
Report to: Beaux Jennings		Email To: bjennings@ensolum.com													 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf					
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET												SDG # L1568089 Ta L-038 Acctnum: ENSOLUMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB: Shipped Via:				
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMTX-SUMMA																
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001																
Collected by (signature):		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote #																
Immediately Packed on Ice N ☐ X ☐ Y ☐				Date Results Needed																
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs													
Levey Well		G	Air		12-9-22	1241	1	X												
<del>  </del>																				

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other _____

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier _____

Tracking # _____

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Check/ist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

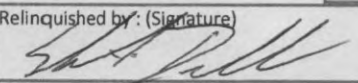
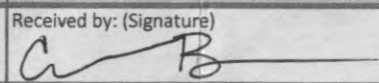
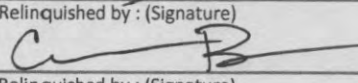
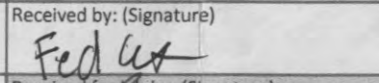
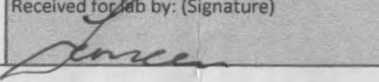
Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature) 	Date: 12/13/22	Time: 12:01	Received by: (Signature) 	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature) 	Date: 12/13/22	Time: 1700	Received by: (Signature) 	Temp: _____ °C Bottles Received: _____
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: 12/15/22 Time: 0900 Hold: _____ Condition: NCF / OK



ANALYTICAL REPORT

December 22, 2022

Ensolum, LLC

Sample Delivery Group: L1568940
Samples Received: 12/17/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

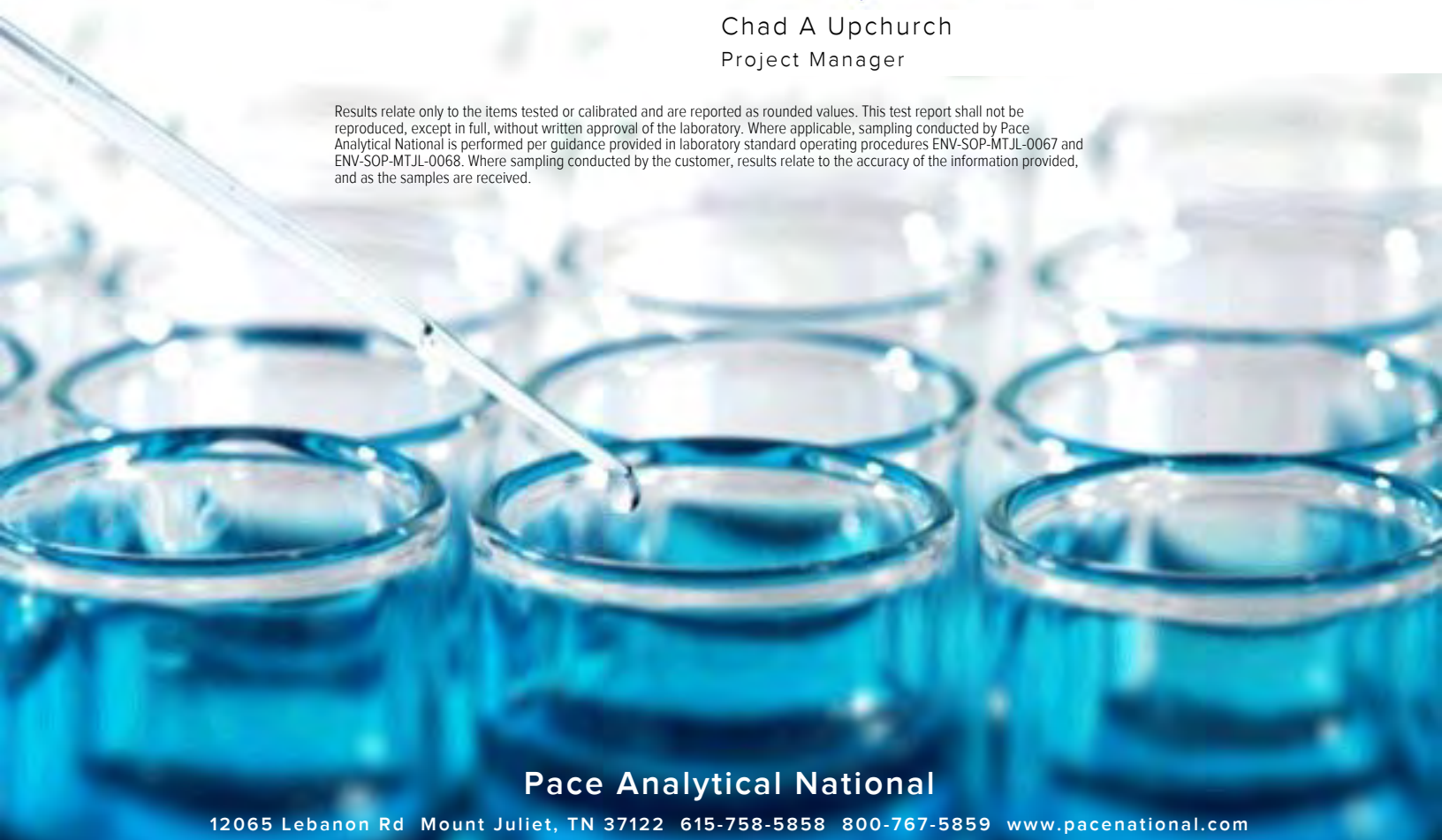


Entire Report Reviewed By:

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 L1568940-01	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 L1568940-01 Air

Collected by
Shane Diller

Collected date/time
12/15/22 12:28

Received date/time
12/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1977156	2000	12/20/22 15:10	12/20/22 15:10	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1978647	40000	12/22/22 13:06	12/22/22 13:06	DAH	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.



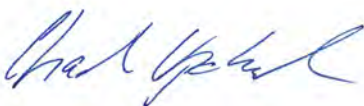
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 12/22/2022 15:03				
Project Name: Levey Well			Laboratory Job Number: L1568940-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1977156 and WG1978647				
# 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: 12/22/2022 15:03				
Project Name: Levey Well			Laboratory Job Number: L1568940-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1977156 and WG1978647				
# 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: 12/22/2022 15:03	
Project Name: Levey Well		Laboratory Job Number: L1568940-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1977156 and WG1978647	
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: 12/15/22 12:28

L1568940

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	8650	20600		2000	WG1977156
Allyl chloride	107-05-1	76.53	400	1250	ND	ND		2000	WG1977156
Benzene	71-43-2	78.10	400	1280	ND	ND		2000	WG1977156
Benzyl Chloride	100-44-7	127	400	2080	ND	ND		2000	WG1977156
Bromodichloromethane	75-27-4	164	400	2680	ND	ND		2000	WG1977156
Bromoform	75-25-2	253	1200	12400	ND	ND		2000	WG1977156
Bromomethane	74-83-9	94.90	400	1550	ND	ND		2000	WG1977156
1,3-Butadiene	106-99-0	54.10	4000	8850	ND	ND		2000	WG1977156
Carbon disulfide	75-15-0	76.10	400	1240	ND	ND		2000	WG1977156
Carbon tetrachloride	56-23-5	154	400	2520	ND	ND		2000	WG1977156
Chlorobenzene	108-90-7	113	400	1850	ND	ND		2000	WG1977156
Chloroethane	75-00-3	64.50	400	1060	ND	ND		2000	WG1977156
Chloroform	67-66-3	119	400	1950	ND	ND		2000	WG1977156
Chloromethane	74-87-3	50.50	400	826	ND	ND		2000	WG1977156
2-Chlorotoluene	95-49-8	126	400	2060	ND	ND		2000	WG1977156
Cyclohexane	110-82-7	84.20	400	1380	93200	321000		2000	WG1977156
Dibromochloromethane	124-48-1	208	400	3400	ND	ND		2000	WG1977156
1,2-Dibromoethane	106-93-4	188	400	3080	ND	ND		2000	WG1977156
1,2-Dichlorobenzene	95-50-1	147	400	2400	ND	ND		2000	WG1977156
1,3-Dichlorobenzene	541-73-1	147	400	2400	ND	ND		2000	WG1977156
1,4-Dichlorobenzene	106-46-7	147	400	2400	ND	ND		2000	WG1977156
1,2-Dichloroethane	107-06-2	99	400	1620	ND	ND		2000	WG1977156
1,1-Dichloroethane	75-34-3	98	400	1600	ND	ND		2000	WG1977156
1,1-Dichloroethene	75-35-4	96.90	400	1590	ND	ND		2000	WG1977156
cis-1,2-Dichloroethene	156-59-2	96.90	400	1590	ND	ND		2000	WG1977156
trans-1,2-Dichloroethene	156-60-5	96.90	400	1590	ND	ND		2000	WG1977156
1,2-Dichloropropane	78-87-5	113	400	1850	ND	ND		2000	WG1977156
cis-1,3-Dichloropropene	10061-01-5	111	400	1820	ND	ND		2000	WG1977156
trans-1,3-Dichloropropene	10061-02-6	111	400	1820	ND	ND		2000	WG1977156
1,4-Dioxane	123-91-1	88.10	400	1440	ND	ND		2000	WG1977156
Ethanol	64-17-5	46.10	2500	4710	4220	7960		2000	WG1977156
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG1977156
4-Ethyltoluene	622-96-8	120	400	1960	ND	ND		2000	WG1977156
Trichlorofluoromethane	75-69-4	137.40	400	2250	ND	ND		2000	WG1977156
Dichlorodifluoromethane	75-71-8	120.92	400	1980	ND	ND		2000	WG1977156
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	400	3070	ND	ND		2000	WG1977156
1,2-Dichlorotetrafluoroethane	76-14-2	171	400	2800	ND	ND		2000	WG1977156
Heptane	142-82-5	100	400	1640	155000	634000		2000	WG1977156
Hexachloro-1,3-butadiene	87-68-3	261	1260	13500	ND	ND		2000	WG1977156
n-Hexane	110-54-3	86.20	25200	88800	1360000	4790000		40000	WG1978647
Isopropylbenzene	98-82-8	120.20	400	1970	ND	ND		2000	WG1977156
Methylene Chloride	75-09-2	84.90	400	1390	ND	ND		2000	WG1977156
Methyl Butyl Ketone	591-78-6	100	2500	10200	ND	ND		2000	WG1977156
2-Butanone (MEK)	78-93-3	72.10	2500	7370	4150	12200		2000	WG1977156
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2500	10200	ND	ND		2000	WG1977156
Methyl methacrylate	80-62-6	100.12	400	1640	ND	ND		2000	WG1977156
MTBE	1634-04-4	88.10	400	1440	ND	ND		2000	WG1977156
Naphthalene	91-20-3	128	1260	6600	ND	ND		2000	WG1977156
2-Propanol	67-63-0	60.10	2500	6150	5650	13900		2000	WG1977156
Propene	115-07-1	42.10	2500	4300	ND	ND		2000	WG1977156
Styrene	100-42-5	104	400	1700	ND	ND		2000	WG1977156
1,1,2,2-Tetrachloroethane	79-34-5	168	400	2750	ND	ND		2000	WG1977156
Tetrachloroethylene	127-18-4	166	400	2720	ND	ND		2000	WG1977156
Tetrahydrofuran	109-99-9	72.10	400	1180	ND	ND		2000	WG1977156
Toluene	108-88-3	92.10	1000	3770	ND	ND		2000	WG1977156
1,2,4-Trichlorobenzene	120-82-1	181	1260	9330	ND	ND		2000	WG1977156

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/15/22 12:28

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	WG1977156
1,1,2-Trichloroethane	79-00-5	133	400	2180	ND	ND		2000	WG1977156
Trichloroethylene	79-01-6	131	400	2140	ND	ND		2000	WG1977156
1,2,4-Trimethylbenzene	95-63-6	120	400	1960	ND	ND		2000	WG1977156
1,3,5-Trimethylbenzene	108-67-8	120	400	1960	ND	ND		2000	WG1977156
2,2,4-Trimethylpentane	540-84-1	114.22	400	1870	ND	ND		2000	WG1977156
Vinyl chloride	75-01-4	62.50	400	1020	ND	ND		2000	WG1977156
Vinyl Bromide	593-60-2	106.95	400	1750	ND	ND		2000	WG1977156
Vinyl acetate	108-05-4	86.10	400	1410	ND	ND		2000	WG1977156
m&p-Xylene	1330-20-7	106	800	3470	ND	ND		2000	WG1977156
o-Xylene	95-47-6	106	400	1730	ND	ND		2000	WG1977156
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	3940000	16300000		2000	WG1977156
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.8				WG1977156
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		87.8				WG1978647

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1568940-01

Method Blank (MB)

(MB) R3874215-3 12/20/22 10:16

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) R3874215-3 12/20/22 10:16

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	0.133	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	93.2			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3874215-1 12/20/22 08:46 • (LCSD) R3874215-2 12/20/22 09:32

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.54	3.80	94.4	101	70.0-130			7.08	25
Allyl Chloride	3.75	3.59	4.05	95.7	108	70.0-130			12.0	25
Benzene	3.75	3.74	3.84	99.7	102	70.0-130			2.64	25
Benzyl Chloride	3.75	3.74	3.73	99.7	99.5	70.0-152			0.268	25
Bromodichloromethane	3.75	3.95	4.04	105	108	70.0-130			2.25	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3874215-1 12/20/22 08:46 • (LCSD) R3874215-2 12/20/22 09:32

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	4.06	4.02	108	107	70.0-130			0.990	25
Bromomethane	3.75	3.49	3.72	93.1	99.2	70.0-130			6.38	25
1,3-Butadiene	3.75	3.78	3.63	101	96.8	70.0-130			4.05	25
Carbon disulfide	3.75	3.64	3.67	97.1	97.9	70.0-130			0.821	25
Carbon tetrachloride	3.75	3.98	4.16	106	111	70.0-130			4.42	25
Chlorobenzene	3.75	3.90	4.11	104	110	70.0-130			5.24	25
Chloroethane	3.75	3.63	3.56	96.8	94.9	70.0-130			1.95	25
Chloroform	3.75	3.64	3.77	97.1	101	70.0-130			3.51	25
Chloromethane	3.75	3.77	3.82	101	102	70.0-130			1.32	25
2-Chlorotoluene	3.75	3.95	3.78	105	101	70.0-130			4.40	25
Cyclohexane	3.75	3.75	3.63	100	96.8	70.0-130			3.25	25
Dibromochloromethane	3.75	4.09	4.20	109	112	70.0-130			2.65	25
1,2-Dibromoethane	3.75	4.05	4.15	108	111	70.0-130			2.44	25
1,2-Dichlorobenzene	3.75	4.09	4.09	109	109	70.0-130			0.000	25
1,3-Dichlorobenzene	3.75	4.28	4.26	114	114	70.0-130			0.468	25
1,4-Dichlorobenzene	3.75	4.24	4.19	113	112	70.0-130			1.19	25
1,2-Dichloroethane	3.75	3.97	4.04	106	108	70.0-130			1.75	25
1,1-Dichloroethane	3.75	3.61	3.70	96.3	98.7	70.0-130			2.46	25
1,1-Dichloroethene	3.75	3.63	3.77	96.8	101	70.0-130			3.78	25
cis-1,2-Dichloroethene	3.75	3.75	3.82	100	102	70.0-130			1.85	25
trans-1,2-Dichloroethene	3.75	3.61	3.76	96.3	100	70.0-130			4.07	25
1,2-Dichloropropane	3.75	3.58	3.69	95.5	98.4	70.0-130			3.03	25
cis-1,3-Dichloropropene	3.75	3.85	3.92	103	105	70.0-130			1.80	25
trans-1,3-Dichloropropene	3.75	3.87	3.96	103	106	70.0-130			2.30	25
1,4-Dioxane	3.75	3.72	3.83	99.2	102	70.0-140			2.91	25
Ethanol	3.75	3.02	3.30	80.5	88.0	55.0-148			8.86	25
Ethylbenzene	3.75	3.80	3.85	101	103	70.0-130			1.31	25
4-Ethyltoluene	3.75	3.99	3.89	106	104	70.0-130			2.54	25
Trichlorofluoromethane	3.75	3.87	3.86	103	103	70.0-130			0.259	25
Dichlorodifluoromethane	3.75	3.73	3.81	99.5	102	64.0-139			2.12	25
1,1,2-Trichlorotrifluoroethane	3.75	3.70	3.81	98.7	102	70.0-130			2.93	25
1,2-Dichlorotetrafluoroethane	3.75	3.98	4.01	106	107	70.0-130			0.751	25
Heptane	3.75	3.23	3.31	86.1	88.3	70.0-130			2.45	25
Hexachloro-1,3-butadiene	3.75	4.27	4.29	114	114	70.0-151			0.467	25
Isopropylbenzene	3.75	3.93	3.88	105	103	70.0-130			1.28	25
Methylene Chloride	3.75	3.54	3.58	94.4	95.5	70.0-130			1.12	25
Methyl Butyl Ketone	3.75	3.68	3.95	98.1	105	70.0-149			7.08	25
Methyl Ethyl Ketone	3.75	3.57	3.69	95.2	98.4	70.0-130			3.31	25
4-Methyl-2-pentanone (MIBK)	3.75	3.74	3.77	99.7	101	70.0-139			0.799	25
Methyl Methacrylate	3.75	3.78	3.75	101	100	70.0-130			0.797	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1568940-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3874215-1 12/20/22 08:46 • (LCSD) R3874215-2 12/20/22 09:32

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	3.62	3.67	96.5	97.9	70.0-130			1.37	25
Naphthalene	3.75	4.02	4.04	107	108	70.0-159			0.496	25
2-Propanol	3.75	3.53	3.58	94.1	95.5	70.0-139			1.41	25
Propene	3.75	3.70	3.82	98.7	102	64.0-144			3.19	25
Styrene	3.75	3.96	3.86	106	103	70.0-130			2.56	25
1,1,2,2-Tetrachloroethane	3.75	3.73	3.77	99.5	101	70.0-130			1.07	25
Tetrachloroethylene	3.75	4.03	4.09	107	109	70.0-130			1.48	25
Tetrahydrofuran	3.75	3.61	3.78	96.3	101	70.0-137			4.60	25
Toluene	3.75	3.73	3.90	99.5	104	70.0-130			4.46	25
1,2,4-Trichlorobenzene	3.75	4.08	4.17	109	111	70.0-160			2.18	25
1,1,1-Trichloroethane	3.75	4.01	4.03	107	107	70.0-130			0.498	25
1,1,2-Trichloroethane	3.75	3.78	4.03	101	107	70.0-130			6.40	25
Trichloroethylene	3.75	3.91	3.91	104	104	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	3.92	3.94	105	105	70.0-130			0.509	25
1,3,5-Trimethylbenzene	3.75	4.01	3.94	107	105	70.0-130			1.76	25
2,2,4-Trimethylpentane	3.75	3.54	3.66	94.4	97.6	70.0-130			3.33	25
Vinyl chloride	3.75	3.61	3.80	96.3	101	70.0-130			5.13	25
Vinyl Bromide	3.75	3.68	3.81	98.1	102	70.0-130			3.47	25
Vinyl acetate	3.75	3.56	3.70	94.9	98.7	70.0-130			3.86	25
m&p-Xylene	7.50	7.69	7.48	103	99.7	70.0-130			2.77	25
o-Xylene	3.75	3.82	3.81	102	102	70.0-130			0.262	25
TPH (GC/MS) Low Fraction	203	209	209	103	103	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				101	97.5	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1568940-01](#)

Method Blank (MB)

(MB) R3874949-3 12/22/22 09:32

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	90.0			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3874949-1 12/22/22 08:33 • (LCSD) R3874949-2 12/22/22 09:04

	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	4.02	4.10	107	109	70.0-130			1.97	25
(S) 1,4-Bromofluorobenzene				102	101	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

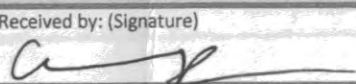
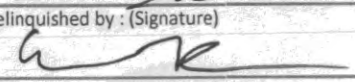
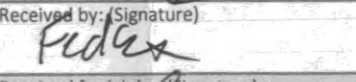
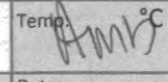
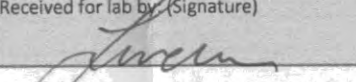
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ____ of ____							
Report to: Beaux Jennings				Email To: bjennings@ensolum.com																 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf							
Project Description: Levey Well				City/State Collected: Hobbs NM				Please Circle: PT MT CT ET																			
Phone: 210-219-8858				Client Project # 03B1417001				Lab Project # ENSOLUMMTX-SUMMA																			
Collected by (print): Shane Diller				Site/Facility ID # 03B1417001				P.O. # 03B1417001																			
Collected by (signature):				Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ☒ Three Day				Quote #																			
Immediately Packed on Ice N ☒ X Y ___								Date Results Needed		No. of Cntrs																	
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time															
Levey Well				G		Air		-		12-15-22		1228		1		X											
<del> NITE 12-15-22 </del>																											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____				Remarks:						pH _____ Temp _____																	
										Flow _____ Other _____																	
				Samples returned via: ___ UPS ___ FedEx ___ Courier _____				Tracking #																			
Relinquished by: (Signature) 				Date: 12-16-22		Time: 1030		Received by: (Signature) 				Trip Blank Received: Yes / No ☒ HCL / MeOH TBR															
Relinquished by: (Signature) 				Date: 12/16/22		Time: 1700		Received by: (Signature) 				Term:  Bottles Received: 1				If preservation required by Login: Date/Time											
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: 12/17/22 Time: 0930				Hold:				Condition: NCF / OK							



ANALYTICAL REPORT

December 27, 2022

Ensolum, LLC

Sample Delivery Group: L1569784
Samples Received: 12/21/2022
Project Number: 03B1417001
Description: LEVEY WELL
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

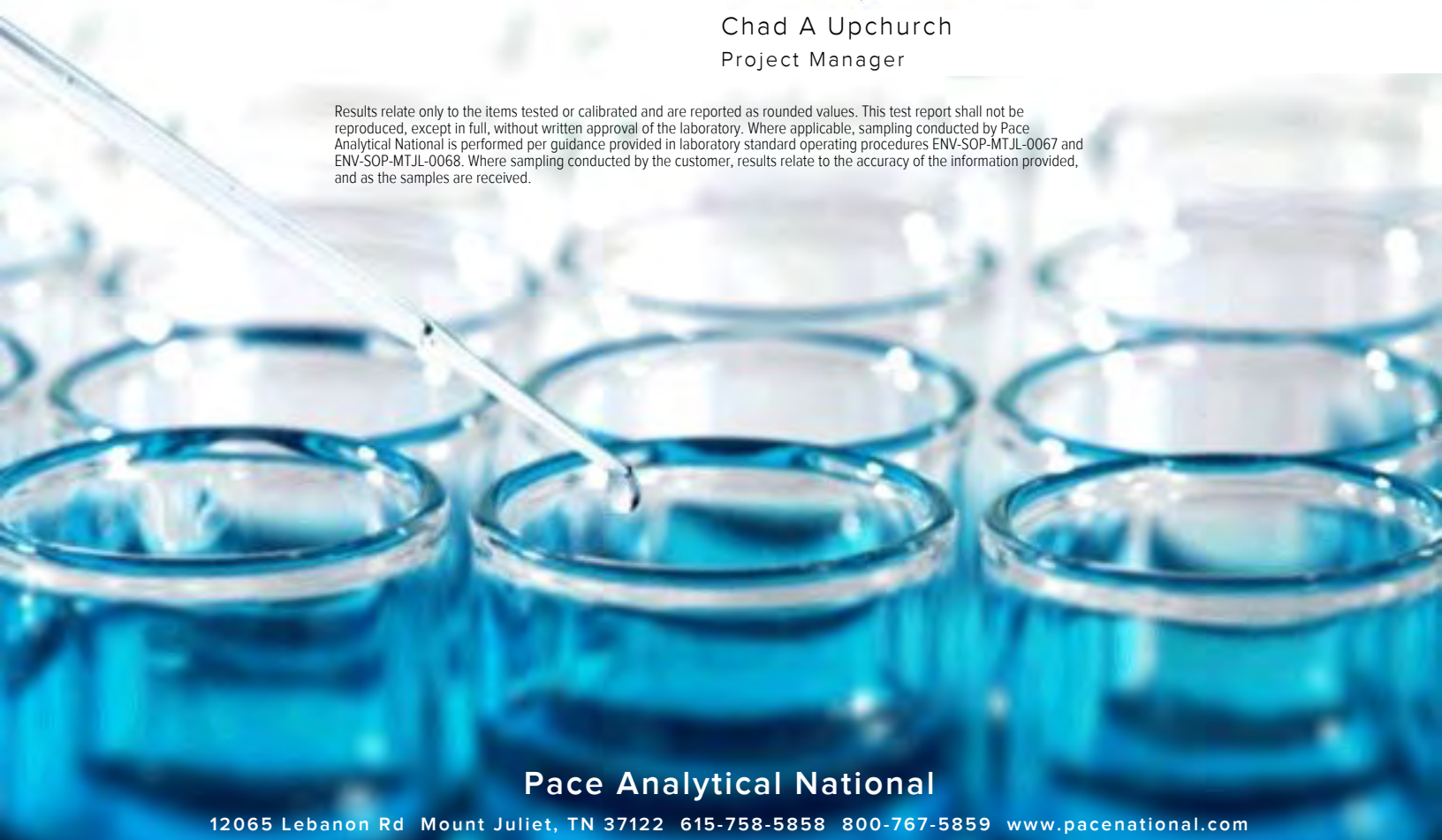


Entire Report Reviewed By:

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 L1569784-01	9	⁶ Sr
LEVEY WELL L1569784-02	11	
LEVEY WELL L1569784-03	13	⁷ Qc
LEVEY WELL L1569784-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	32	
Al: Accreditations & Locations	33	¹⁰ Sc
Sc: Sample Chain of Custody	34	

LEVEY WELL L1569784-01 Air

Collected by
Shane Diller

Collected date/time
12/19/22 11:41

Received date/time
12/21/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1979283	500	12/25/22 01:06	12/25/22 01:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1979777	5000	12/27/22 12:32	12/27/22 12:32	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1979852	40000	12/27/22 15:16	12/27/22 15:16	CEP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1569784-02 Air

Collected by
Shane Diller

Collected date/time
12/19/22 15:38

Received date/time
12/21/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1979262	20	12/24/22 13:52	12/24/22 13:52	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1979777	200	12/27/22 13:14	12/27/22 13:14	CEP	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1569784-03 Air

Collected by
Shane Diller

Collected date/time
12/19/22 16:38

Received date/time
12/21/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1978647	20	12/22/22 20:48	12/22/22 20:48	DAH	Mt. Juliet, TN

⁷Qc

⁸Gl

⁹Al

LEVEY WELL L1569784-04 Air

Collected by
Shane Diller

Collected date/time
12/19/22 17:38

Received date/time
12/21/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1978647	20	12/22/22 21:13	12/22/22 21:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1979799	200	12/27/22 13:25	12/27/22 13:25	CEP	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

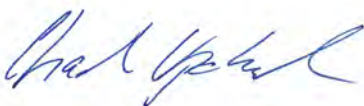
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 12/27/2022 16:51				
Project Name: LEVEY WELL			Laboratory Job Number: L1569784-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1978647, WG1979283, WG1979262, WG1979777, WG1979799 and WG1979852				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			2
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: 12/27/2022 16:51					
Project Name: LEVEY WELL		Laboratory Job Number: L1569784-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1978647, WG1979283, WG1979262, WG1979777, WG1979799 and WG1979852					
# 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: 12/27/2022 16:51	
Project Name: LEVEY WELL		Laboratory Job Number: L1569784-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1978647, WG1979283, WG1979262, WG1979777, WG1979799 and WG1979852	
ER #¹	Description		
1	TO-15 WG1978647 1,2-Dichlorobenzene: Percent Recovery is outside of established control limits. TO-15 WG1979283 Acetone, TPH (GC/MS) Low Fraction: Percent Recovery is outside of established control limits.		
2	TO-15 WG1979283 Acetone: 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: 12/19/22 11:41

L1569784

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	625	1490	ND	ND	J3 J4	500	WG1979283
Allyl chloride	107-05-1	76.53	100	313	ND	ND		500	WG1979283
Benzene	71-43-2	78.10	100	319	ND	ND		500	WG1979283
Benzyl Chloride	100-44-7	127	100	519	ND	ND		500	WG1979283
Bromodichloromethane	75-27-4	164	100	671	ND	ND		500	WG1979283
Bromoform	75-25-2	253	300	3100	ND	ND		500	WG1979283
Bromomethane	74-83-9	94.90	100	388	ND	ND		500	WG1979283
1,3-Butadiene	106-99-0	54.10	1000	2210	ND	ND		500	WG1979283
Carbon disulfide	75-15-0	76.10	100	311	ND	ND		500	WG1979283
Carbon tetrachloride	56-23-5	154	100	630	ND	ND		500	WG1979283
Chlorobenzene	108-90-7	113	100	462	ND	ND		500	WG1979283
Chloroethane	75-00-3	64.50	100	264	ND	ND		500	WG1979283
Chloroform	67-66-3	119	100	487	ND	ND		500	WG1979283
Chloromethane	74-87-3	50.50	100	207	ND	ND		500	WG1979283
2-Chlorotoluene	95-49-8	126	100	515	ND	ND		500	WG1979283
Cyclohexane	110-82-7	84.20	1000	3440	45900	158000		5000	WG1979777
Dibromochloromethane	124-48-1	208	100	851	ND	ND		500	WG1979283
1,2-Dibromoethane	106-93-4	188	100	769	ND	ND		500	WG1979283
1,2-Dichlorobenzene	95-50-1	147	100	601	ND	ND		500	WG1979283
1,3-Dichlorobenzene	541-73-1	147	100	601	ND	ND		500	WG1979283
1,4-Dichlorobenzene	106-46-7	147	100	601	ND	ND		500	WG1979283
1,2-Dichloroethane	107-06-2	99	100	405	ND	ND		500	WG1979283
1,1-Dichloroethane	75-34-3	98	100	401	ND	ND		500	WG1979283
1,1-Dichloroethene	75-35-4	96.90	100	396	ND	ND		500	WG1979283
cis-1,2-Dichloroethene	156-59-2	96.90	100	396	ND	ND		500	WG1979283
trans-1,2-Dichloroethene	156-60-5	96.90	100	396	ND	ND		500	WG1979283
1,2-Dichloropropane	78-87-5	113	100	462	ND	ND		500	WG1979283
cis-1,3-Dichloropropene	10061-01-5	111	100	454	ND	ND		500	WG1979283
trans-1,3-Dichloropropene	10061-02-6	111	100	454	ND	ND		500	WG1979283
1,4-Dioxane	123-91-1	88.10	100	360	ND	ND		500	WG1979283
Ethanol	64-17-5	46.10	625	1180	3390	6390		500	WG1979283
Ethylbenzene	100-41-4	106	100	434	ND	ND		500	WG1979283
4-Ethyltoluene	622-96-8	120	100	491	ND	ND		500	WG1979283
Trichlorofluoromethane	75-69-4	137.40	100	562	ND	ND		500	WG1979283
Dichlorodifluoromethane	75-71-8	120.92	100	495	ND	ND		500	WG1979283
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	100	766	ND	ND		500	WG1979283
1,2-Dichlorotetrafluoroethane	76-14-2	171	100	699	ND	ND		500	WG1979283
Heptane	142-82-5	100	1000	4090	74600	305000		5000	WG1979777
Hexachloro-1,3-butadiene	87-68-3	261	315	3360	ND	ND		500	WG1979283
n-Hexane	110-54-3	86.20	25200	88800	685000	2420000		40000	WG1979852
Isopropylbenzene	98-82-8	120.20	100	492	ND	ND		500	WG1979283
Methylene Chloride	75-09-2	84.90	100	347	271	941		500	WG1979283
Methyl Butyl Ketone	591-78-6	100	625	2560	ND	ND		500	WG1979283
2-Butanone (MEK)	78-93-3	72.10	625	1840	3460	10200		500	WG1979283
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	625	2560	ND	ND		500	WG1979283
Methyl methacrylate	80-62-6	100.12	100	409	ND	ND		500	WG1979283
MTBE	1634-04-4	88.10	100	360	ND	ND		500	WG1979283
Naphthalene	91-20-3	128	315	1650	ND	ND		500	WG1979283
2-Propanol	67-63-0	60.10	625	1540	2850	7010		500	WG1979283
Propene	115-07-1	42.10	625	1080	ND	ND		500	WG1979283
Styrene	100-42-5	104	100	425	ND	ND		500	WG1979283
1,1,2,2-Tetrachloroethane	79-34-5	168	100	687	ND	ND		500	WG1979283
Tetrachloroethylene	127-18-4	166	100	679	ND	ND		500	WG1979283
Tetrahydrofuran	109-99-9	72.10	100	295	ND	ND		500	WG1979283
Toluene	108-88-3	92.10	250	942	ND	ND		500	WG1979283
1,2,4-Trichlorobenzene	120-82-1	181	315	2330	ND	ND		500	WG1979283

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/19/22 11:41

L1569784

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	100	544	ND	ND		500	WG1979283
1,1,2-Trichloroethane	79-00-5	133	100	544	ND	ND		500	WG1979283
Trichloroethylene	79-01-6	131	100	536	ND	ND		500	WG1979283
1,2,4-Trimethylbenzene	95-63-6	120	100	491	ND	ND		500	WG1979283
1,3,5-Trimethylbenzene	108-67-8	120	100	491	ND	ND		500	WG1979283
2,2,4-Trimethylpentane	540-84-1	114.22	100	467	ND	ND		500	WG1979283
Vinyl chloride	75-01-4	62.50	100	256	ND	ND		500	WG1979283
Vinyl Bromide	593-60-2	106.95	100	437	ND	ND		500	WG1979283
Vinyl acetate	108-05-4	86.10	100	352	ND	ND		500	WG1979283
m&p-Xylene	1330-20-7	106	200	867	ND	ND		500	WG1979283
o-Xylene	95-47-6	106	100	434	ND	ND		500	WG1979283
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	2150000	8880000	J4	500	WG1979283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.3				WG1979283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		90.8				WG1979777
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		87.2				WG1979852

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Collected date/time: 12/19/22 15:38

L1569784

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	44.1	105		20	WG1979262
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1979262
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1979262
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1979262
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1979262
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1979262
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1979262
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1979262
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1979262
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1979262
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1979262
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1979262
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1979262
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1979262
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1979262
Cyclohexane	110-82-7	84.20	4.00	13.8	350	1210		20	WG1979262
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1979262
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1979262
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1979262
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1979262
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1979262
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1979262
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1979262
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1979262
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1979262
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1979262
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1979262
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1979262
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1979262
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1979262
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1979262
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1979262
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1979262
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1979262
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1979262
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1979262
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1979262
Heptane	142-82-5	100	4.00	16.4	809	3310		20	WG1979262
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1979262
n-Hexane	110-54-3	86.20	126	444	2130	7510		200	WG1979777
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1979262
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1979262
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1979262
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1979262
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1979262
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1979262
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1979262
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1979262
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1979262
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1979262
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1979262
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1979262
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1979262
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1979262
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1979262
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1979262

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/19/22 15:38

L1569784

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	WG1979262
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1979262
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1979262
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1979262
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1979262
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1979262
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1979262
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1979262
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1979262
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1979262
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1979262
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	18200	75200		20	WG1979262
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.9				WG1979262
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		88.3				WG1979777

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/19/22 16:38

L1569784

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	ND	ND		20	WG1978647
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1978647
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1978647
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1978647
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1978647
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1978647
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1978647
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1978647
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1978647
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1978647
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1978647
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1978647
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1978647
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1978647
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1978647
Cyclohexane	110-82-7	84.20	4.00	13.8	173	596		20	WG1978647
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1978647
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1978647
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND	J4	20	WG1978647
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1978647
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1978647
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1978647
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1978647
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1978647
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1978647
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1978647
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1978647
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1978647
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1978647
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1978647
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1978647
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1978647
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1978647
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1978647
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1978647
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1978647
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1978647
Heptane	142-82-5	100	4.00	16.4	287	1170		20	WG1978647
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1978647
n-Hexane	110-54-3	86.20	12.6	44.4	1110	3910		20	WG1978647
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1978647
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1978647
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1978647
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1978647
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1978647
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1978647
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1978647
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1978647
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1978647
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1978647
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1978647
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1978647
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1978647
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1978647
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1978647
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1978647



Collected date/time: 12/19/22 16:38

L1569784

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	WG1978647
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1978647
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1978647
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1978647
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1978647
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1978647
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1978647
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1978647
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1978647
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1978647
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1978647
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	8240	34000	B	20	WG1978647
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		84.3				WG1978647

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 12/19/22 17:38

L1569784

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	ND	ND		20	WG1978647
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1978647
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1978647
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1978647
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1978647
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1978647
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1978647
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1978647
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1978647
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1978647
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1978647
Chloroethane	75-00-3	64.50	4.00	10.6	10.6	28.0		20	WG1978647
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1978647
Chloromethane	74-87-3	50.50	4.00	8.26	14.5	29.9		20	WG1978647
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1978647
Cyclohexane	110-82-7	84.20	4.00	13.8	1030	3550		20	WG1978647
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1978647
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1978647
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND	J4	20	WG1978647
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1978647
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1978647
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1978647
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1978647
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1978647
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1978647
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1978647
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1978647
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1978647
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1978647
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1978647
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1978647
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1978647
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1978647
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1978647
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1978647
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1978647
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1978647
Heptane	142-82-5	100	4.00	16.4	1500	6130		20	WG1978647
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1978647
n-Hexane	110-54-3	86.20	126	444	6000	21200		200	WG1979799
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1978647
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1978647
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1978647
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	35.6	105		20	WG1978647
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1978647
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1978647
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1978647
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1978647
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1978647
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1978647
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1978647
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1978647
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1978647
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1978647
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1978647
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1978647

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/19/22 17:38

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG1978647
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1978647
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1978647
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1978647
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1978647
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1978647
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1978647
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1978647
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1978647
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1978647
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1978647
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	33300	138000		20	WG1978647
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		87.9				WG1978647
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.2				WG1979799

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3874949-3 12/22/22 09:32

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.458	U	0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3874949-3 12/22/22 09:32

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	0.0967	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	53.3	U	39.7	200
(S) 1,4-Bromofluorobenzene	90.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3874949-1 12/22/22 08:33 • (LCSD) R3874949-2 12/22/22 09:04

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	4.28	3.85	114	103	70.0-130			10.6	25
Allyl Chloride	3.75	4.68	4.71	125	126	70.0-130			0.639	25
Benzene	3.75	3.89	3.92	104	105	70.0-130			0.768	25
Benzyl Chloride	3.75	5.32	5.26	142	140	70.0-152			1.13	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3874949-1 12/22/22 08:33 • (LCSD) R3874949-2 12/22/22 09:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.02	4.02	107	107	70.0-130			0.000	25
Bromoform	3.75	4.62	4.54	123	121	70.0-130			1.75	25
Bromomethane	3.75	3.89	3.99	104	106	70.0-130			2.54	25
1,3-Butadiene	3.75	3.82	3.92	102	105	70.0-130			2.58	25
Carbon disulfide	3.75	4.67	4.76	125	127	70.0-130			1.91	25
Carbon tetrachloride	3.75	4.04	4.07	108	109	70.0-130			0.740	25
Chlorobenzene	3.75	3.97	4.03	106	107	70.0-130			1.50	25
Chloroethane	3.75	4.37	4.45	117	119	70.0-130			1.81	25
Chloroform	3.75	3.97	4.00	106	107	70.0-130			0.753	25
Chloromethane	3.75	4.25	4.37	113	117	70.0-130			2.78	25
2-Chlorotoluene	3.75	4.29	4.31	114	115	70.0-130			0.465	25
Cyclohexane	3.75	4.06	4.15	108	111	70.0-130			2.19	25
Dibromochloromethane	3.75	4.20	4.20	112	112	70.0-130			0.000	25
1,2-Dibromoethane	3.75	4.13	4.15	110	111	70.0-130			0.483	25
1,2-Dichlorobenzene	3.75	4.89	4.92	130	131	70.0-130		J4	0.612	25
1,3-Dichlorobenzene	3.75	4.17	4.17	111	111	70.0-130			0.000	25
1,4-Dichlorobenzene	3.75	4.21	4.21	112	112	70.0-130			0.000	25
1,2-Dichloroethane	3.75	3.69	3.71	98.4	98.9	70.0-130			0.541	25
1,1-Dichloroethane	3.75	3.88	3.90	103	104	70.0-130			0.514	25
1,1-Dichloroethene	3.75	4.23	4.34	113	116	70.0-130			2.57	25
cis-1,2-Dichloroethene	3.75	3.86	3.91	103	104	70.0-130			1.29	25
trans-1,2-Dichloroethene	3.75	4.35	4.42	116	118	70.0-130			1.60	25
1,2-Dichloropropane	3.75	3.79	3.82	101	102	70.0-130			0.788	25
cis-1,3-Dichloropropene	3.75	4.13	4.12	110	110	70.0-130			0.242	25
trans-1,3-Dichloropropene	3.75	4.25	4.19	113	112	70.0-130			1.42	25
1,4-Dioxane	3.75	4.02	3.95	107	105	70.0-140			1.76	25
Ethanol	3.75	4.93	5.25	131	140	55.0-148			6.29	25
Ethylbenzene	3.75	4.21	4.27	112	114	70.0-130			1.42	25
4-Ethyltoluene	3.75	4.83	4.82	129	129	70.0-130			0.207	25
Trichlorofluoromethane	3.75	3.62	3.70	96.5	98.7	70.0-130			2.19	25
Dichlorodifluoromethane	3.75	3.83	3.87	102	103	64.0-139			1.04	25
1,1,2-Trichlorotrifluoroethane	3.75	4.30	4.39	115	117	70.0-130			2.07	25
1,2-Dichlorotetrafluoroethane	3.75	4.05	4.11	108	110	70.0-130			1.47	25
Heptane	3.75	3.92	3.95	105	105	70.0-130			0.762	25
Hexachloro-1,3-butadiene	3.75	4.70	4.73	125	126	70.0-151			0.636	25
n-Hexane	3.75	4.02	4.10	107	109	70.0-130			1.97	25
Isopropylbenzene	3.75	4.27	4.28	114	114	70.0-130			0.234	25
Methylene Chloride	3.75	4.25	4.38	113	117	70.0-130			3.01	25
Methyl Butyl Ketone	3.75	3.91	3.95	104	105	70.0-149			1.02	25
Methyl Ethyl Ketone	3.75	3.99	4.07	106	109	70.0-130			1.99	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) R3874949-1 12/22/22 08:33 • (LCSD) R3874949-2 12/22/22 09:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.94	3.99	105	106	70.0-139			1.26	25
Methyl Methacrylate	3.75	4.00	4.01	107	107	70.0-130			0.250	25
MTBE	3.75	4.01	4.07	107	109	70.0-130			1.49	25
Naphthalene	3.75	3.68	3.71	98.1	98.9	70.0-159			0.812	25
2-Propanol	3.75	4.00	4.05	107	108	70.0-139			1.24	25
Propene	3.75	3.77	3.79	101	101	64.0-144			0.529	25
Styrene	3.75	4.51	4.56	120	122	70.0-130			1.10	25
1,1,2,2-Tetrachloroethane	3.75	4.29	4.30	114	115	70.0-130			0.233	25
Tetrachloroethylene	3.75	4.10	4.13	109	110	70.0-130			0.729	25
Tetrahydrofuran	3.75	3.80	3.89	101	104	70.0-137			2.34	25
Toluene	3.75	3.99	3.99	106	106	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.78	3.81	101	102	70.0-160			0.791	25
1,1,1-Trichloroethane	3.75	3.97	4.02	106	107	70.0-130			1.25	25
1,1,2-Trichloroethane	3.75	3.93	3.94	105	105	70.0-130			0.254	25
Trichloroethylene	3.75	3.96	3.99	106	106	70.0-130			0.755	25
1,2,4-Trimethylbenzene	3.75	4.73	4.76	126	127	70.0-130			0.632	25
1,3,5-Trimethylbenzene	3.75	4.43	4.43	118	118	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	4.01	4.05	107	108	70.0-130			0.993	25
Vinyl chloride	3.75	4.27	4.31	114	115	70.0-130			0.932	25
Vinyl Bromide	3.75	3.93	3.99	105	106	70.0-130			1.52	25
Vinyl acetate	3.75	3.75	3.78	100	101	70.0-130			0.797	25
m&p-Xylene	7.50	8.91	9.00	119	120	70.0-130			1.01	25
o-Xylene	3.75	4.38	4.39	117	117	70.0-130			0.228	25
TPH (GC/MS) Low Fraction	203	245	244	121	120	70.0-130			0.409	25
(S) 1,4-Bromofluorobenzene				102	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3875520-3 12/24/22 08:59

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

Volatile Organic Compounds (MS) by Method TO-15

L1569784-02

Method Blank (MB)

(MB) R3875520-3 12/24/22 08:59

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	0.173	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	96.9			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875520-1 12/24/22 07:40 • (LCSD) R3875520-2 12/24/22 08:20

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	4.05	4.11	108	110	70.0-130			1.47	25
Allyl Chloride	3.75	4.23	4.01	113	107	70.0-130			5.34	25
Benzene	3.75	3.84	3.82	102	102	70.0-130			0.522	25
Benzyl Chloride	3.75	4.64	4.49	124	120	70.0-152			3.29	25
Bromodichloromethane	3.75	3.83	3.81	102	102	70.0-130			0.524	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875520-1 12/24/22 07:40 • (LCSD) R3875520-2 12/24/22 08:20

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 %
Bromoform	3.75	3.88	3.88	103	103	70.0-130			0.000	25
Bromomethane	3.75	3.93	3.84	105	102	70.0-130			2.32	25
1,3-Butadiene	3.75	4.01	4.01	107	107	70.0-130			0.000	25
Carbon disulfide	3.75	3.90	3.94	104	105	70.0-130			1.02	25
Carbon tetrachloride	3.75	3.99	3.98	106	106	70.0-130			0.251	25
Chlorobenzene	3.75	3.74	3.73	99.7	99.5	70.0-130			0.268	25
Chloroethane	3.75	3.97	3.84	106	102	70.0-130			3.33	25
Chloroform	3.75	3.90	3.96	104	106	70.0-130			1.53	25
Chloromethane	3.75	4.00	4.09	107	109	70.0-130			2.22	25
2-Chlorotoluene	3.75	3.94	3.90	105	104	70.0-130			1.02	25
Cyclohexane	3.75	3.88	3.89	103	104	70.0-130			0.257	25
Dibromochloromethane	3.75	3.82	3.78	102	101	70.0-130			1.05	25
1,2-Dibromoethane	3.75	3.86	3.81	103	102	70.0-130			1.30	25
1,2-Dichlorobenzene	3.75	4.22	4.18	113	111	70.0-130			0.952	25
1,3-Dichlorobenzene	3.75	4.19	4.17	112	111	70.0-130			0.478	25
1,4-Dichlorobenzene	3.75	4.32	4.31	115	115	70.0-130			0.232	25
1,2-Dichloroethane	3.75	3.94	3.95	105	105	70.0-130			0.253	25
1,1-Dichloroethane	3.75	4.01	4.06	107	108	70.0-130			1.24	25
1,1-Dichloroethene	3.75	3.94	3.97	105	106	70.0-130			0.759	25
cis-1,2-Dichloroethene	3.75	3.95	3.90	105	104	70.0-130			1.27	25
trans-1,2-Dichloroethene	3.75	3.96	4.00	106	107	70.0-130			1.01	25
1,2-Dichloropropane	3.75	3.86	3.83	103	102	70.0-130			0.780	25
cis-1,3-Dichloropropene	3.75	3.87	3.85	103	103	70.0-130			0.518	25
trans-1,3-Dichloropropene	3.75	3.81	3.83	102	102	70.0-130			0.524	25
1,4-Dioxane	3.75	3.80	3.81	101	102	70.0-140			0.263	25
Ethanol	3.75	4.18	4.13	111	110	55.0-148			1.20	25
Ethylbenzene	3.75	3.90	3.91	104	104	70.0-130			0.256	25
4-Ethyltoluene	3.75	4.21	4.08	112	109	70.0-130			3.14	25
Trichlorofluoromethane	3.75	3.98	3.96	106	106	70.0-130			0.504	25
Dichlorodifluoromethane	3.75	4.04	4.02	108	107	64.0-139			0.496	25
1,1,2-Trichlorotrifluoroethane	3.75	3.81	3.90	102	104	70.0-130			2.33	25
1,2-Dichlorotetrafluoroethane	3.75	3.94	3.96	105	106	70.0-130			0.506	25
Heptane	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Hexachloro-1,3-butadiene	3.75	3.75	3.78	100	101	70.0-151			0.797	25
Isopropylbenzene	3.75	4.01	3.98	107	106	70.0-130			0.751	25
Methylene Chloride	3.75	3.97	3.94	106	105	70.0-130			0.759	25
Methyl Butyl Ketone	3.75	3.85	3.87	103	103	70.0-149			0.518	25
Methyl Ethyl Ketone	3.75	3.96	3.74	106	99.7	70.0-130			5.71	25
4-Methyl-2-pentanone (MIBK)	3.75	3.98	3.90	106	104	70.0-139			2.03	25
Methyl Methacrylate	3.75	3.97	3.90	106	104	70.0-130			1.78	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875520-1 12/24/22 07:40 • (LCSD) R3875520-2 12/24/22 08:20

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	3.94	3.91	105	104	70.0-130			0.764	25
Naphthalene	3.75	4.01	4.04	107	108	70.0-159			0.745	25
2-Propanol	3.75	3.86	3.87	103	103	70.0-139			0.259	25
Propene	3.75	4.21	4.19	112	112	64.0-144			0.476	25
Styrene	3.75	3.99	3.97	106	106	70.0-130			0.503	25
1,1,2,2-Tetrachloroethane	3.75	4.17	4.06	111	108	70.0-130			2.67	25
Tetrachloroethylene	3.75	3.73	3.75	99.5	100	70.0-130			0.535	25
Tetrahydrofuran	3.75	3.85	3.80	103	101	70.0-137			1.31	25
Toluene	3.75	3.83	3.83	102	102	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	4.05	4.13	108	110	70.0-160			1.96	25
1,1,1-Trichloroethane	3.75	3.88	3.90	103	104	70.0-130			0.514	25
1,1,2-Trichloroethane	3.75	3.89	3.87	104	103	70.0-130			0.515	25
Trichloroethylene	3.75	3.85	3.82	103	102	70.0-130			0.782	25
1,2,4-Trimethylbenzene	3.75	4.23	4.16	113	111	70.0-130			1.67	25
1,3,5-Trimethylbenzene	3.75	4.01	4.01	107	107	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	3.95	4.00	105	107	70.0-130			1.26	25
Vinyl chloride	3.75	4.04	3.96	108	106	70.0-130			2.00	25
Vinyl Bromide	3.75	3.94	3.97	105	106	70.0-130			0.759	25
Vinyl acetate	3.75	3.69	3.70	98.4	98.7	70.0-130			0.271	25
m&p-Xylene	7.50	7.63	7.60	102	101	70.0-130			0.394	25
o-Xylene	3.75	3.84	3.80	102	101	70.0-130			1.05	25
TPH (GC/MS) Low Fraction	203	227	224	112	110	70.0-130			1.33	25
(S) 1,4-Bromofluorobenzene				102	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3875511-3 12/24/22 11:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3875511-3 12/24/22 11:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	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	62.3	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	92.5			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875511-1 12/24/22 10:34 • (LCSD) R3875511-2 12/24/22 11:06

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	4.41	7.92	118	211	70.0-130		J3 J4	56.9	25
Allyl Chloride	3.75	4.10	4.04	109	108	70.0-130			1.47	25
Benzene	3.75	4.20	4.19	112	112	70.0-130			0.238	25
Benzyl Chloride	3.75	4.48	4.51	119	120	70.0-152			0.667	25
Bromodichloromethane	3.75	4.22	4.12	113	110	70.0-130			2.40	25
Bromoform	3.75	4.34	4.23	116	113	70.0-130			2.57	25
Bromomethane	3.75	4.28	4.25	114	113	70.0-130			0.703	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875511-1 12/24/22 10:34 • (LCSD) R3875511-2 12/24/22 11:06

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	4.20	4.17	112	111	70.0-130			0.717	25
Carbon disulfide	3.75	4.10	4.05	109	108	70.0-130			1.23	25
Carbon tetrachloride	3.75	4.32	4.22	115	113	70.0-130			2.34	25
Chlorobenzene	3.75	4.34	4.30	116	115	70.0-130			0.926	25
Chloroethane	3.75	4.31	4.24	115	113	70.0-130			1.64	25
Chloroform	3.75	4.30	4.25	115	113	70.0-130			1.17	25
Chloromethane	3.75	4.38	4.40	117	117	70.0-130			0.456	25
2-Chlorotoluene	3.75	4.47	4.41	119	118	70.0-130			1.35	25
Dibromochloromethane	3.75	4.32	4.25	115	113	70.0-130			1.63	25
1,2-Dibromoethane	3.75	4.23	4.26	113	114	70.0-130			0.707	25
1,2-Dichlorobenzene	3.75	4.53	4.41	121	118	70.0-130			2.68	25
1,3-Dichlorobenzene	3.75	4.64	4.52	124	121	70.0-130			2.62	25
1,4-Dichlorobenzene	3.75	4.66	4.50	124	120	70.0-130			3.49	25
1,2-Dichloroethane	3.75	4.26	4.21	114	112	70.0-130			1.18	25
1,1-Dichloroethane	3.75	4.30	4.27	115	114	70.0-130			0.700	25
1,1-Dichloroethene	3.75	4.11	4.11	110	110	70.0-130			0.000	25
cis-1,2-Dichloroethene	3.75	4.23	4.19	113	112	70.0-130			0.950	25
trans-1,2-Dichloroethene	3.75	4.20	4.16	112	111	70.0-130			0.957	25
1,2-Dichloropropane	3.75	4.25	4.23	113	113	70.0-130			0.472	25
cis-1,3-Dichloropropene	3.75	4.24	4.14	113	110	70.0-130			2.39	25
trans-1,3-Dichloropropene	3.75	4.23	4.18	113	111	70.0-130			1.19	25
1,4-Dioxane	3.75	4.04	4.01	108	107	70.0-140			0.745	25
Ethanol	3.75	4.10	4.05	109	108	55.0-148			1.23	25
Ethylbenzene	3.75	4.44	4.38	118	117	70.0-130			1.36	25
4-Ethyltoluene	3.75	4.63	4.50	123	120	70.0-130			2.85	25
Trichlorofluoromethane	3.75	4.20	4.15	112	111	70.0-130			1.20	25
Dichlorodifluoromethane	3.75	4.13	4.09	110	109	64.0-139			0.973	25
1,1,2-Trichlorotrifluoroethane	3.75	4.18	4.12	111	110	70.0-130			1.45	25
1,2-Dichlorotetrafluoroethane	3.75	4.42	4.41	118	118	70.0-130			0.227	25
Hexachloro-1,3-butadiene	3.75	4.20	4.11	112	110	70.0-151			2.17	25
Isopropylbenzene	3.75	4.59	4.45	122	119	70.0-130			3.10	25
Methylene Chloride	3.75	4.00	4.02	107	107	70.0-130			0.499	25
Methyl Butyl Ketone	3.75	4.03	4.06	107	108	70.0-149			0.742	25
2-Butanone (MEK)	3.75	4.48	4.43	119	118	70.0-130			1.12	25
4-Methyl-2-pentanone (MIBK)	3.75	4.17	4.12	111	110	70.0-139			1.21	25
Methyl Methacrylate	3.75	4.21	4.19	112	112	70.0-130			0.476	25
MTBE	3.75	4.37	4.32	117	115	70.0-130			1.15	25
Naphthalene	3.75	4.57	4.53	122	121	70.0-159			0.879	25
2-Propanol	3.75	4.17	4.05	111	108	70.0-139			2.92	25
Propene	3.75	3.84	3.76	102	100	64.0-144			2.11	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875511-1 12/24/22 10:34 • (LCSD) R3875511-2 12/24/22 11:06

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	4.53	4.40	121	117	70.0-130			2.91	25
1,1,2,2-Tetrachloroethane	3.75	4.50	4.42	120	118	70.0-130			1.79	25
Tetrachloroethylene	3.75	4.36	4.26	116	114	70.0-130			2.32	25
Tetrahydrofuran	3.75	4.28	4.24	114	113	70.0-137			0.939	25
Toluene	3.75	4.31	4.23	115	113	70.0-130			1.87	25
1,2,4-Trichlorobenzene	3.75	4.22	4.05	113	108	70.0-160			4.11	25
1,1,1-Trichloroethane	3.75	4.31	4.21	115	112	70.0-130			2.35	25
1,1,2-Trichloroethane	3.75	4.33	4.23	115	113	70.0-130			2.34	25
Trichloroethylene	3.75	4.23	4.23	113	113	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	4.66	4.59	124	122	70.0-130			1.51	25
1,3,5-Trimethylbenzene	3.75	4.67	4.50	125	120	70.0-130			3.71	25
2,2,4-Trimethylpentane	3.75	4.30	4.28	115	114	70.0-130			0.466	25
Vinyl chloride	3.75	4.43	4.30	118	115	70.0-130			2.98	25
Vinyl Bromide	3.75	4.24	4.23	113	113	70.0-130			0.236	25
Vinyl acetate	3.75	4.34	4.38	116	117	70.0-130			0.917	25
m&p-Xylene	7.50	9.19	9.01	123	120	70.0-130			1.98	25
o-Xylene	3.75	4.55	4.49	121	120	70.0-130			1.33	25
TPH (GC/MS) Low Fraction	203	267	264	132	130	70.0-130	J4		1.13	25
(S) 1,4-Bromofluorobenzene				97.5	98.2	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3875736-3 12/27/22 10:37

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	87.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875736-1 12/27/22 09:11 • (LCSD) R3875736-2 12/27/22 09:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	3.39	3.32	90.4	88.5	70.0-130			2.09	25
Heptane	3.75	3.58	3.56	95.5	94.9	70.0-130			0.560	25
n-Hexane	3.75	3.33	3.18	88.8	84.8	70.0-130			4.61	25
(S) 1,4-Bromofluorobenzene				89.5	90.3	60.0-140				

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1569784-04

Method Blank (MB)

(MB) R3875739-3 12/27/22 12:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	95.5			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875739-1 12/27/22 09:11 • (LCSD) R3875739-2 12/27/22 09:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
n-Hexane	3.75	3.92	3.90	105	104	70.0-130			0.512	25
(S) 1,4-Bromofluorobenzene				97.4	97.1	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3875790-3 12/27/22 10:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	87.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3875790-1 12/27/22 09:11 • (LCSD) R3875790-2 12/27/22 09:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
n-Hexane	3.75	3.33	3.18	88.8	84.8	70.0-130			4.61	25
(S) 1,4-Bromofluorobenzene				89.5	90.3	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.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

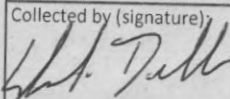
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

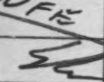
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

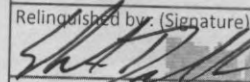
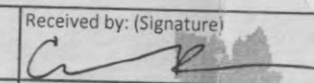
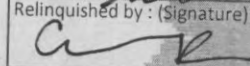
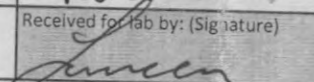


Company Name/Address: Ensolum LLC 601 Marienfeld #400 MIDLAND TX 79701			Billing Information:			Analysis		Chain of Custody Page 1 of 1  L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 	
Report to: Beaux Jennings			Email To: bjennings@ensolum.com			Sumg		L# L1569784 K139 Acctnum: ENSOLUM06 Template: T180734 Proligin: Ag63517 TSR: M.B. Cooler: OR 11/1/20	
Project Levey Well			City/State Collected: Hobbs NM						
Phone: 432-230-3344 Fax:		Client Project # 0381417001		Lab Project #					
Collected by (print): Shane D. Hill		Site/Facility ID # 0381417001		P.O. #					
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day 200% ☐ Next Day 100% ☐ Two Day 50% ☒ Three Day 25%		Date Results Needed					
				Email? ☐ No ☐ Yes FAX? ☐ No ☐ Yes		Canister Pressure/Vacuum			

Sample ID	Sample Description	Can #	Date	Time	Initial	Final													
	Levey Well	8549	12-19-22	1141	-27	0	X												
	Levey Well	10866	12-19-22	1538	-25	0	X												
	Levey Well	10798	12-19-22	1638	-25	0	X												
	Levey Well	22377	12-19-22	1738	-26	0	X												
~~NFE 12-19-22~~ 																			

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable
 COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☐ Y ☐ N
 Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☐ Y ☐ N
 Correct bottles used: ☒ Y ☐ N
 Sufficient volume sent: ☒ Y ☐ N
 RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Remarks:		Relinquished by: (Signature) 		Date: 12/20/22 Time: 1230		Received by: (Signature) 		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____		Condition: (lab use only)	
Relinquished by: (Signature) 		Date: 12/20/22 Time: 1700		Received by: (Signature) FedEx		Temp: _____ °C Bottles Received: _____		COC Seal Intact: ☐ Y ☐ N ☐ NA		pH Checked: _____ NCF: _____	
Relinquished by: (Signature)		Date: _____ Time: _____		Received for lab by: (Signature) 		Date: 12/21/22 Time: 1000		COC Seal Intact: ☐ Y ☐ N ☐ NA		pH Checked: _____ NCF: _____	



ANALYTICAL REPORT

January 03, 2023

Ensolum, LLC

Sample Delivery Group: L1570973
Samples Received: 12/28/2022
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 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 L1570973-01	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 L1570973-01 Air

Collected by
Shane Diller

Collected date/time
12/21/22 13:18

Received date/time
12/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980864	100	12/29/22 20:00	12/29/22 20:00	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1981402	2000	12/30/22 14:55	12/30/22 14:55	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1982027	10000	01/02/23 19:20	01/02/23 19:20	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.



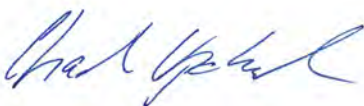
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 01/03/2023 13:53					
Project Name: Levey Well		Laboratory Job Number: L1570973-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1980864, WG1981402 and WG1982027					
# 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: 01/03/2023 13:53				
Project Name: Levey Well			Laboratory Job Number: L1570973-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1980864, WG1981402 and WG1982027				
# 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: 01/03/2023 13:53	
Project Name: Levey Well		Laboratory Job Number: L1570973-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1980864, WG1981402 and WG1982027	
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: 12/21/22 13:18

L1570973

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG1980864
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1980864
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1980864
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1980864
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1980864
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1980864
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1980864
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1980864
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1980864
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1980864
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1980864
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1980864
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1980864
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1980864
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1980864
Cyclohexane	110-82-7	84.20	400	1380	25600	88200		2000	WG1981402
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1980864
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1980864
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1980864
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1980864
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1980864
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1980864
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1980864
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1980864
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1980864
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1980864
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1980864
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1980864
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1980864
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1980864
Ethanol	64-17-5	46.10	125	236	3700	6980		100	WG1980864
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1980864
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1980864
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1980864
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1980864
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1980864
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1980864
Heptane	142-82-5	100	400	1640	47700	195000		2000	WG1981402
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1980864
n-Hexane	110-54-3	86.20	6300	22200	649000	2290000		10000	WG1982027
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1980864
Methylene Chloride	75-09-2	84.90	20.0	69.4	54.6	190		100	WG1980864
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1980864
2-Butanone (MEK)	78-93-3	72.10	125	369	1630	4810		100	WG1980864
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1980864
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1980864
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1980864
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1980864
2-Propanol	67-63-0	60.10	125	307	3660	9000		100	WG1980864
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1980864
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1980864
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1980864
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1980864
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1980864
Toluene	108-88-3	92.10	50.0	188	80.2	302		100	WG1980864
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1980864

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/21/22 13:18

L1570973

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	WG1980864
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1980864
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1980864
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1980864
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG1980864
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1980864
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1980864
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1980864
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1980864
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1980864
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1980864
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	543000	2240000		100	WG1980864
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.4				WG1980864
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.7				WG1981402
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.4				WG1982027

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3876458-3 12/29/22 10:14

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	0.481	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) R3876458-3 12/29/22 10:14

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	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	52.1	U	39.7	200
(S) 1,4-Bromofluorobenzene	97.4			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3876458-1 12/29/22 09:15 • (LCSD) R3876458-2 12/29/22 09:45

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	3.65	4.17	97.3	111	70.0-130			13.3	25
Allyl Chloride	3.75	3.88	3.89	103	104	70.0-130			0.257	25
Benzene	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
Benzyl Chloride	3.75	4.02	3.93	107	105	70.0-152			2.26	25
Bromodichloromethane	3.75	4.07	3.99	109	106	70.0-130			1.99	25
Bromoform	3.75	4.36	4.21	116	112	70.0-130			3.50	25
Bromomethane	3.75	3.82	3.93	102	105	70.0-130			2.84	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3876458-1 12/29/22 09:15 • (LCSD) R3876458-2 12/29/22 09:45

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	3.67	3.72	97.9	99.2	70.0-130			1.35	25
Carbon disulfide	3.75	4.17	4.15	111	111	70.0-130			0.481	25
Carbon tetrachloride	3.75	3.98	3.98	106	106	70.0-130			0.000	25
Chlorobenzene	3.75	3.83	3.78	102	101	70.0-130			1.31	25
Chloroethane	3.75	3.82	3.94	102	105	70.0-130			3.09	25
Chloroform	3.75	3.80	3.81	101	102	70.0-130			0.263	25
Chloromethane	3.75	3.81	3.82	102	102	70.0-130			0.262	25
2-Chlorotoluene	3.75	3.84	3.80	102	101	70.0-130			1.05	25
Dibromochloromethane	3.75	4.25	4.15	113	111	70.0-130			2.38	25
1,2-Dibromoethane	3.75	4.03	3.97	107	106	70.0-130			1.50	25
1,2-Dichlorobenzene	3.75	3.90	3.86	104	103	70.0-130			1.03	25
1,3-Dichlorobenzene	3.75	3.98	3.92	106	105	70.0-130			1.52	25
1,4-Dichlorobenzene	3.75	4.01	3.98	107	106	70.0-130			0.751	25
1,2-Dichloroethane	3.75	3.81	3.73	102	99.5	70.0-130			2.12	25
1,1-Dichloroethane	3.75	3.78	3.78	101	101	70.0-130			0.000	25
1,1-Dichloroethene	3.75	3.90	3.92	104	105	70.0-130			0.512	25
cis-1,2-Dichloroethene	3.75	3.77	3.82	101	102	70.0-130			1.32	25
trans-1,2-Dichloroethene	3.75	3.93	3.96	105	106	70.0-130			0.760	25
1,2-Dichloropropane	3.75	3.81	3.76	102	100	70.0-130			1.32	25
cis-1,3-Dichloropropene	3.75	4.07	3.97	109	106	70.0-130			2.49	25
trans-1,3-Dichloropropene	3.75	4.11	4.04	110	108	70.0-130			1.72	25
1,4-Dioxane	3.75	3.59	3.54	95.7	94.4	70.0-140			1.40	25
Ethanol	3.75	3.68	3.85	98.1	103	55.0-148			4.52	25
Ethylbenzene	3.75	3.80	3.80	101	101	70.0-130			0.000	25
4-Ethyltoluene	3.75	4.03	3.96	107	106	70.0-130			1.75	25
Trichlorofluoromethane	3.75	3.90	4.01	104	107	70.0-130			2.78	25
Dichlorodifluoromethane	3.75	3.80	3.95	101	105	64.0-139			3.87	25
1,1,2-Trichlorotrifluoroethane	3.75	3.96	4.04	106	108	70.0-130			2.00	25
1,2-Dichlorotetrafluoroethane	3.75	3.85	3.89	103	104	70.0-130			1.03	25
Hexachloro-1,3-butadiene	3.75	4.01	4.03	107	107	70.0-151			0.498	25
Isopropylbenzene	3.75	3.89	3.86	104	103	70.0-130			0.774	25
Methylene Chloride	3.75	3.75	3.80	100	101	70.0-130			1.32	25
Methyl Butyl Ketone	3.75	3.74	3.62	99.7	96.5	70.0-149			3.26	25
Methyl Ethyl Ketone	3.75	3.79	3.76	101	100	70.0-130			0.795	25
4-Methyl-2-pentanone (MIBK)	3.75	3.87	3.79	103	101	70.0-139			2.09	25
Methyl Methacrylate	3.75	3.84	3.78	102	101	70.0-130			1.57	25
MTBE	3.75	3.75	3.78	100	101	70.0-130			0.797	25
Naphthalene	3.75	3.97	3.97	106	106	70.0-159			0.000	25
2-Propanol	3.75	3.73	3.78	99.5	101	70.0-139			1.33	25
Propene	3.75	3.57	3.62	95.2	96.5	64.0-144			1.39	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3876458-1 12/29/22 09:15 • (LCSD) R3876458-2 12/29/22 09:45

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	3.87	3.83	103	102	70.0-130			1.04	25
1,1,2,2-Tetrachloroethane	3.75	3.99	3.92	106	105	70.0-130			1.77	25
Tetrachloroethylene	3.75	3.92	3.90	105	104	70.0-130			0.512	25
Tetrahydrofuran	3.75	3.74	3.70	99.7	98.7	70.0-137			1.08	25
Toluene	3.75	3.85	3.80	103	101	70.0-130			1.31	25
1,2,4-Trichlorobenzene	3.75	3.97	3.98	106	106	70.0-160			0.252	25
1,1,1-Trichloroethane	3.75	3.91	3.88	104	103	70.0-130			0.770	25
1,1,2-Trichloroethane	3.75	3.91	3.81	104	102	70.0-130			2.59	25
Trichloroethylene	3.75	3.85	3.82	103	102	70.0-130			0.782	25
1,2,4-Trimethylbenzene	3.75	4.13	4.07	110	109	70.0-130			1.46	25
1,3,5-Trimethylbenzene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
2,2,4-Trimethylpentane	3.75	3.74	3.76	99.7	100	70.0-130			0.533	25
Vinyl chloride	3.75	3.84	3.86	102	103	70.0-130			0.519	25
Vinyl Bromide	3.75	3.95	4.08	105	109	70.0-130			3.24	25
Vinyl acetate	3.75	3.89	3.80	104	101	70.0-130			2.34	25
m&p-Xylene	7.50	8.00	7.93	107	106	70.0-130			0.879	25
o-Xylene	3.75	3.98	3.93	106	105	70.0-130			1.26	25
TPH (GC/MS) Low Fraction	203	235	231	116	114	70.0-130			1.72	25
(S) 1,4-Bromofluorobenzene				100	99.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3877022-3 12/30/22 10:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
(S) 1,4-Bromofluorobenzene	94.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3877022-1 12/30/22 08:52 • (LCSD) R3877022-2 12/30/22 09:35

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	4.51	4.47	120	119	70.0-130			0.891	25
Heptane	3.75	4.43	4.36	118	116	70.0-130			1.59	25
(S) 1,4-Bromofluorobenzene				98.4	97.7	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3877204-3 01/02/23 10:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.8			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3877204-1 01/02/23 09:09 • (LCSD) R3877204-2 01/02/23 09:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
n-Hexane	3.75	3.81	3.84	102	102	70.0-130			0.784	25
(S) 1,4-Bromofluorobenzene				99.2	98.5	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

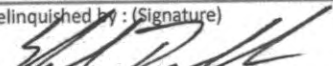
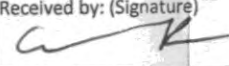
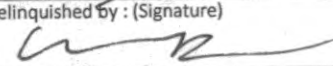
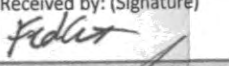
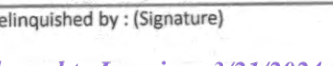
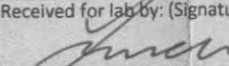
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701		Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page <u> </u> of <u> </u>				
Report to: Beaux Jennings		Email To: bjennings@ensolum.com													 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf				
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET												SDG # L1570973			
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMTX-SUMMA												Tab L-186			
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001												Acctnum: ENSOLUMTX			
Collected by (signature):		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote #												Template: T180734			
Immediately Packed on Ice ☐ N ☒ X ☐ Y				Date Results Needed												Prelogin: P827709			
																PM: 134 - Mark W. Beasley			
																PB:			
																Shipped Via:			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs											Remarks	
Levey Well	G	Air	—	12-21-22	1318	1	X											-01	
NFE 12-21-22 SD																			
* Matrix:		Remarks:		pH _____ Temp _____		Sample Receipt Checklist													
SS - Soil AIR - Air F - Filter				Flow _____ Other _____		COC Seal Present/Intact: ☐ NP ☒ N COC Signed/Accurate: ☐ Y ☒ N Bottles arrive intact: ☐ Y ☒ N Correct bottles used: ☐ Y ☒ N Sufficient volume sent: ☐ Y ☒ N If Applicable VOA Zero Headspace: ☐ Y ☒ N Preservation Correct/Checked: ☐ Y ☒ N RAD Screen <0.5 mR/hr: ☐ Y ☒ N													
GW - Groundwater B - Bioassay		Samples returned via:		Tracking #															
WW - WasteWater		___ UPS ___ FedEx ___ Courier																	
DW - Drinking Water																			
OT - Other _____																			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Trip Blank Received: Yes / No		Bottles Received:						If preservation required by Login: Date/Time					
		12/22/22	1030			HCL / MeOH TBR		1											
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C													
		12/22/22	1700			Amb													
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date:		Time:		Hold:		Condition:							
						12/28/22		0900				NCF / OK							



ANALYTICAL REPORT

January 09, 2023

Ensolum, LLC

Sample Delivery Group: L1572393
Samples Received: 01/04/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

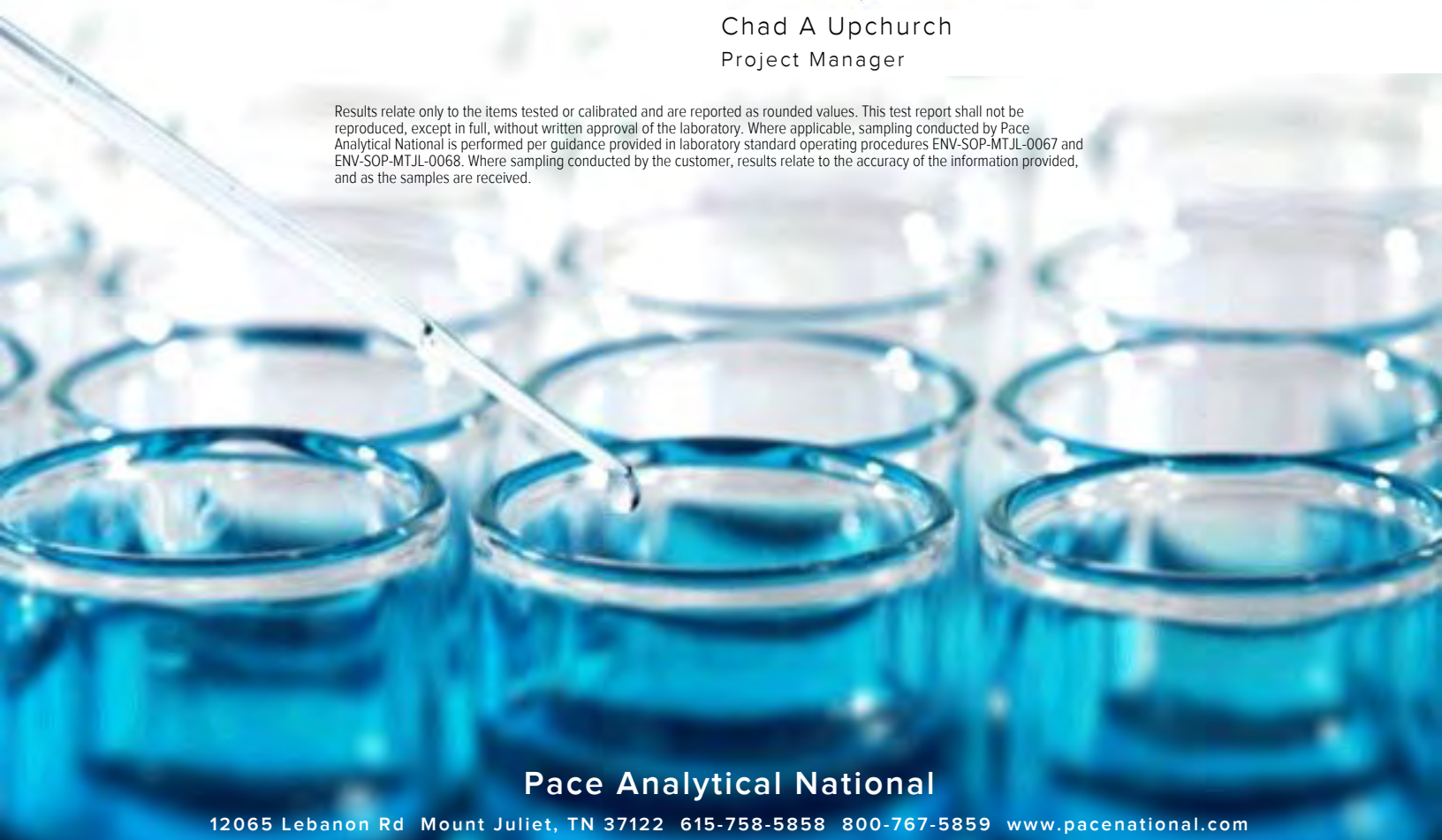


Entire Report Reviewed By:

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 L1572393-01	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 L1572393-01 Air

Collected by
Shane Diller

Collected date/time
12/29/22 13:20

Received date/time
01/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1983619	100	01/06/23 01:08	01/06/23 01:08	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1984366	10000	01/06/23 22:10	01/06/23 22:10	CEP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

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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

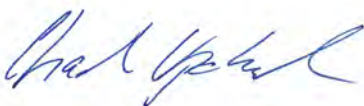
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- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

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: 01/09/2023 14:45				
Project Name: Levey Well			Laboratory Job Number: L1572393-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1983619 and WG1984366				
# 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: 01/09/2023 14:45				
Project Name: Levey Well			Laboratory Job Number: L1572393-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG1983619 and WG1984366				
# 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: 01/09/2023 14:45	
Project Name: Levey Well		Laboratory Job Number: L1572393-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG1983619 and WG1984366	
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: 12/29/22 13:20

L1572393

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	8000	19000		100	WG1983619
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1983619
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1983619
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1983619
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1983619
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1983619
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1983619
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1983619
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1983619
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1983619
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1983619
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1983619
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1983619
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1983619
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1983619
Cyclohexane	110-82-7	84.20	2000	6890	27100	93300		10000	WG1984366
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1983619
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1983619
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1983619
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1983619
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1983619
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1983619
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1983619
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1983619
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1983619
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1983619
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1983619
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1983619
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1983619
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1983619
Ethanol	64-17-5	46.10	125	236	3330	6280		100	WG1983619
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1983619
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1983619
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1983619
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1983619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1983619
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1983619
Heptane	142-82-5	100	2000	8180	44200	181000		10000	WG1984366
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1983619
n-Hexane	110-54-3	86.20	6300	22200	371000	1310000		10000	WG1984366
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1983619
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1983619
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1983619
2-Butanone (MEK)	78-93-3	72.10	125	369	3470	10200		100	WG1983619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1983619
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1983619
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1983619
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1983619
2-Propanol	67-63-0	60.10	125	307	4460	11000		100	WG1983619
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1983619
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1983619
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1983619
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1983619
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1983619
Toluene	108-88-3	92.10	50.0	188	80.8	304		100	WG1983619
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1983619

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 12/29/22 13:20

L1572393

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	WG1983619
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1983619
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1983619
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1983619
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG1983619
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1983619
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1983619
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1983619
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1983619
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1983619
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1983619
TPH (GC/MS) Low Fraction	8006-61-9	101	2000000	8260000	2360000	9750000	B	10000	WG1984366
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.0				WG1983619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.3				WG1984366

Sample Narrative:

L1572393-01 WG1983619: Target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3878298-3 01/05/23 10:22

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) R3878298-3 01/05/23 10:22

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	0.189	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	94.7			60.0-140

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3878298-1 01/05/23 08:55 • (LCSD) R3878298-2 01/05/23 09:39

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	4.07	3.93	109	105	70.0-130			3.50	25
Allyl Chloride	3.75	3.79	3.43	101	91.5	70.0-130			9.97	25
Benzene	3.75	3.76	3.78	100	101	70.0-130			0.531	25
Benzyl Chloride	3.75	3.42	3.45	91.2	92.0	70.0-152			0.873	25
Bromodichloromethane	3.75	3.74	3.70	99.7	98.7	70.0-130			1.08	25
Bromoform	3.75	3.39	3.41	90.4	90.9	70.0-130			0.588	25
Bromomethane	3.75	3.82	3.73	102	99.5	70.0-130			2.38	25
1,3-Butadiene	3.75	3.68	3.60	98.1	96.0	70.0-130			2.20	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3878298-1 01/05/23 08:55 • (LCSD) R3878298-2 01/05/23 09:39

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	3.93	3.97	105	106	70.0-130			1.01	25
Carbon tetrachloride	3.75	3.90	3.82	104	102	70.0-130			2.07	25
Chlorobenzene	3.75	3.93	3.93	105	105	70.0-130			0.000	25
Chloroethane	3.75	3.51	3.54	93.6	94.4	70.0-130			0.851	25
Chloroform	3.75	3.82	3.83	102	102	70.0-130			0.261	25
Chloromethane	3.75	3.90	3.82	104	102	70.0-130			2.07	25
2-Chlorotoluene	3.75	3.84	3.84	102	102	70.0-130			0.000	25
Dibromochloromethane	3.75	3.65	3.66	97.3	97.6	70.0-130			0.274	25
1,2-Dibromoethane	3.75	3.80	3.83	101	102	70.0-130			0.786	25
1,2-Dichlorobenzene	3.75	3.77	3.84	101	102	70.0-130			1.84	25
1,3-Dichlorobenzene	3.75	3.95	3.97	105	106	70.0-130			0.505	25
1,4-Dichlorobenzene	3.75	3.84	3.86	102	103	70.0-130			0.519	25
1,2-Dichloroethane	3.75	3.76	3.78	100	101	70.0-130			0.531	25
1,1-Dichloroethane	3.75	3.94	3.89	105	104	70.0-130			1.28	25
1,1-Dichloroethene	3.75	3.80	3.83	101	102	70.0-130			0.786	25
cis-1,2-Dichloroethene	3.75	3.90	3.80	104	101	70.0-130			2.60	25
trans-1,2-Dichloroethene	3.75	3.82	3.81	102	102	70.0-130			0.262	25
1,2-Dichloropropane	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
cis-1,3-Dichloropropene	3.75	3.85	3.76	103	100	70.0-130			2.37	25
trans-1,3-Dichloropropene	3.75	3.73	3.77	99.5	101	70.0-130			1.07	25
1,4-Dioxane	3.75	3.73	3.66	99.5	97.6	70.0-140			1.89	25
Ethanol	3.75	3.73	3.70	99.5	98.7	55.0-148			0.808	25
Ethylbenzene	3.75	3.90	3.95	104	105	70.0-130			1.27	25
4-Ethyltoluene	3.75	3.98	3.99	106	106	70.0-130			0.251	25
Trichlorofluoromethane	3.75	3.84	3.83	102	102	70.0-130			0.261	25
Dichlorodifluoromethane	3.75	2.94	2.86	78.4	76.3	64.0-139			2.76	25
1,1,2-Trichlorotrifluoroethane	3.75	3.89	3.96	104	106	70.0-130			1.78	25
1,2-Dichlorotetrafluoroethane	3.75	4.01	3.93	107	105	70.0-130			2.02	25
Hexachloro-1,3-butadiene	3.75	3.84	3.88	102	103	70.0-151			1.04	25
Isopropylbenzene	3.75	3.84	3.92	102	105	70.0-130			2.06	25
Methylene Chloride	3.75	3.88	3.80	103	101	70.0-130			2.08	25
Methyl Butyl Ketone	3.75	3.34	3.47	89.1	92.5	70.0-149			3.82	25
Methyl Ethyl Ketone	3.75	3.62	3.55	96.5	94.7	70.0-130			1.95	25
4-Methyl-2-pentanone (MIBK)	3.75	3.59	3.63	95.7	96.8	70.0-139			1.11	25
Methyl Methacrylate	3.75	3.54	3.56	94.4	94.9	70.0-130			0.563	25
MTBE	3.75	3.84	3.80	102	101	70.0-130			1.05	25
Naphthalene	3.75	3.45	3.58	92.0	95.5	70.0-159			3.70	25
2-Propanol	3.75	3.80	3.83	101	102	70.0-139			0.786	25
Propene	3.75	3.91	3.92	104	105	64.0-144			0.255	25
Styrene	3.75	3.75	3.79	100	101	70.0-130			1.06	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3878298-1 01/05/23 08:55 • (LCSD) R3878298-2 01/05/23 09:39

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	3.82	3.90	102	104	70.0-130			2.07	25
Tetrachloroethylene	3.75	3.90	3.86	104	103	70.0-130			1.03	25
Tetrahydrofuran	3.75	3.72	3.68	99.2	98.1	70.0-137			1.08	25
Toluene	3.75	3.76	3.74	100	99.7	70.0-130			0.533	25
1,2,4-Trichlorobenzene	3.75	3.74	3.97	99.7	106	70.0-160			5.97	25
1,1,1-Trichloroethane	3.75	3.90	3.84	104	102	70.0-130			1.55	25
1,1,2-Trichloroethane	3.75	3.83	3.76	102	100	70.0-130			1.84	25
Trichloroethylene	3.75	3.75	3.72	100	99.2	70.0-130			0.803	25
1,2,4-Trimethylbenzene	3.75	3.85	3.91	103	104	70.0-130			1.55	25
1,3,5-Trimethylbenzene	3.75	3.90	3.88	104	103	70.0-130			0.514	25
2,2,4-Trimethylpentane	3.75	3.90	3.86	104	103	70.0-130			1.03	25
Vinyl chloride	3.75	3.81	3.79	102	101	70.0-130			0.526	25
Vinyl Bromide	3.75	3.77	3.78	101	101	70.0-130			0.265	25
Vinyl acetate	3.75	3.72	3.57	99.2	95.2	70.0-130			4.12	25
m&p-Xylene	7.50	7.78	7.80	104	104	70.0-130			0.257	25
o-Xylene	3.75	3.76	3.85	100	103	70.0-130			2.37	25
(S) 1,4-Bromofluorobenzene				98.2	98.9	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3878751-3 01/06/23 10:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	59.4	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	96.0			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3878751-1 01/06/23 08:59 • (LCSD) R3878751-2 01/06/23 09:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	3.70	3.73	98.7	99.5	70.0-130			0.808	25
Heptane	3.75	3.72	3.70	99.2	98.7	70.0-130			0.539	25
n-Hexane	3.75	3.77	3.79	101	101	70.0-130			0.529	25
TPH (GC/MS) Low Fraction	203	242	241	119	119	70.0-130			0.414	25
(S) 1,4-Bromofluorobenzene				97.4	99.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.



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.

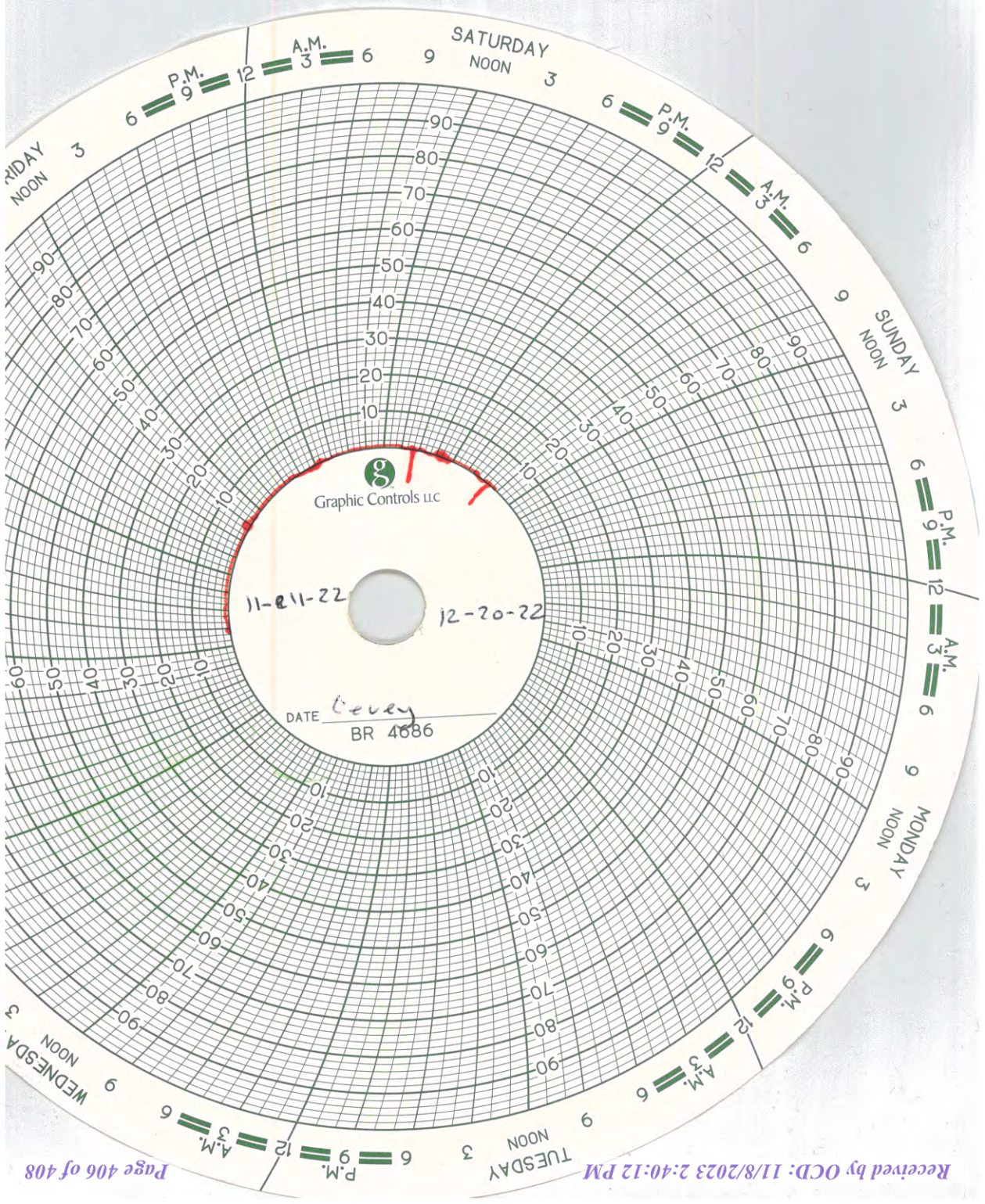


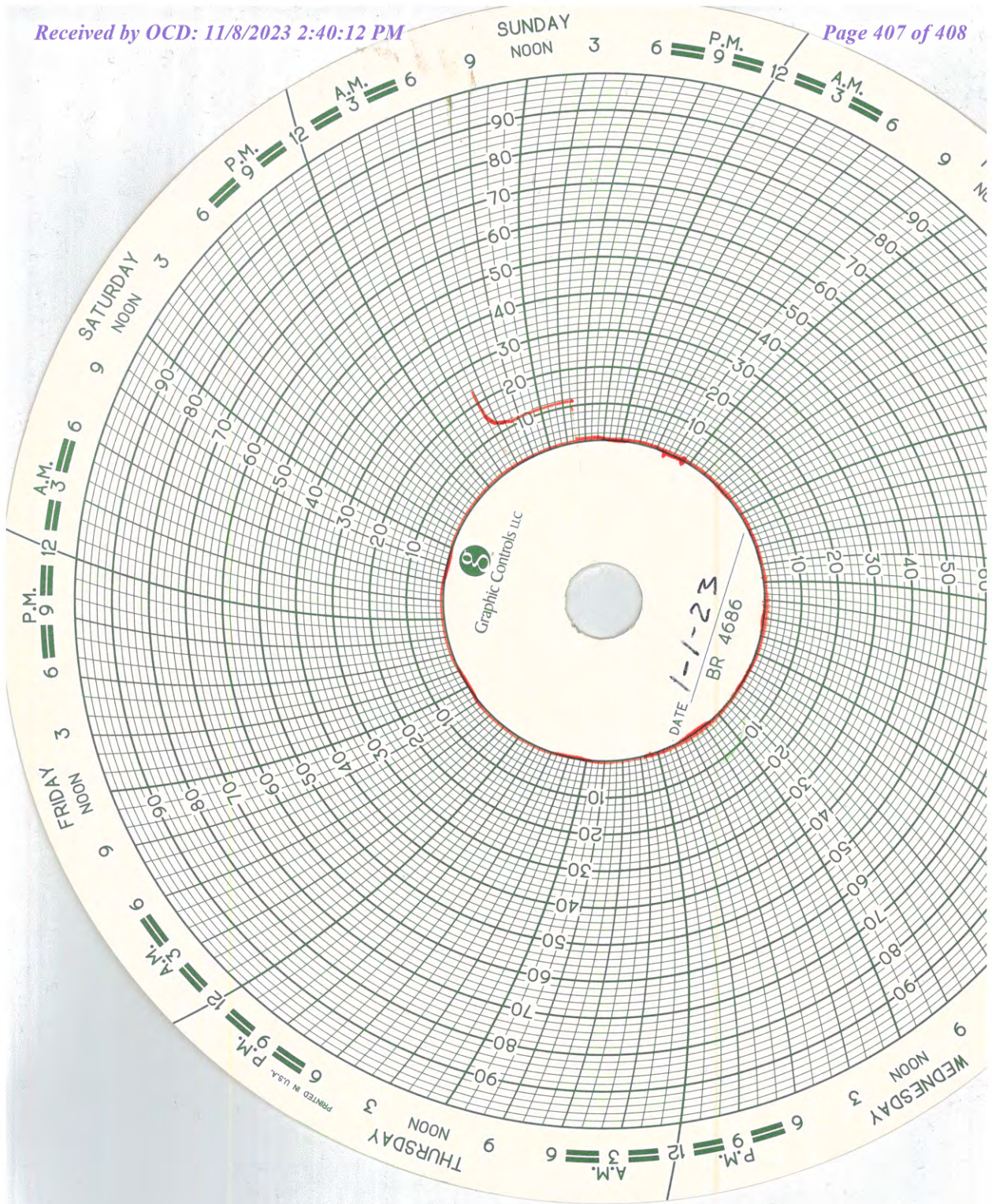
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APPENDIX D

Levey Well Pressure Reading 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 284055

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	284055
	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 - DECEMBER 2022 South Hobbs G/SA Unit Unit F Order No. R-4934-F, Case No. 14981	3/21/2024