



GAS MITIGATION MONTHLY REPORT - JULY 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**

September 1, 2022

Prepared for:

**Occidental Permian LTD
6001 Deauville Blvd.
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Order No. R-4934-F, Case No. 14981
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Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico

1.0 INTRODUCTION

1.1 Site Description & Background

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

This Gas Mitigation Monthly Report - July 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. All wells are located within operations that are part of the South Hobbs Grayburg/San Andres Unit (SHU) Field in the southwestern area of the City of Hobbs, Lea County, New Mexico. Collectively, the Levey water well (Levey Well) and the two (2) monitoring wells (MW-1 and MW-2) are referred to as the "Site".

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

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

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

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

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

OXY's groundwater monitoring program included the collection of a groundwater sample from each monitoring well (MW-1 and MW-2). The monitoring wells were gauged and sampled on May 26, June 30, August 20, October 23, November 24, December 18, 2020, and weekly thereafter. The Levey Well has been sampled consistently from December 6, 2019, to July 27, 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 July 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 0.0177 milligrams per liter (mg/L) to 0.0222 mg/L in monitoring well MW-2. Nitrite as N concentrations ranged from 0.440 mg/L to 3.86 mg/L in monitoring well MW-2. TDS analytical results ranged from 1,160 mg/L to 1,470 mg/L in the Levey Well. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). The groundwater analytical summary tables are included in **Appendix B**.

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

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To mitigate potential exposures, the Levey residence was purchased by OXY and remains unoccupied. A passive vent was installed on the Levey Well to mitigate safety and explosivity concerns for the residential and work area. There has been no detectable build-up of pressure in the Levey Well or monitoring wells MW-1 and MW-2. Hydrogen sulfide (H₂S) has not been detected in any of the three (3) aforementioned wells since July 15, 2020. All detections of H₂S prior to July 15, 2020 were within the well bore. No H₂S 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 8/9/2022, with no pressure observed in either monitoring well. The pressure reading charts available for July 2022 are included in **Appendix D**.

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

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

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

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

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

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during July 1 - 31, 2022 was approximately 686,787 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 (1) vacuum recovery event during the month of June 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 August 2022 once every two (2) weeks until the sampling results of the air is minimal after displacement of the overlying pressure, or the process proves to become ineffective.

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air sample on July 18, 2022, was taken prior to, during, and subsequent to the vacuum recovery event utilizing Summa[®] canisters. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour. An air sample is taken after one (1) hour of the Levey Well stabilization, prior to initiating the vacuum recovery event.

During the July 8, 2022, vacuum recovery event, the vacuum was applied to the Levey Well for a duration of approximately two (2) hours. Approximately one (1) hour and two (2) 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 (1) 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 July 2022 sampling events are provided in **Appendix C**.

2.2 Groundwater Sampling Program

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

Levey Well

As of July 1, 2021, the Levey water well ran full time until February 2, 2022. The Levey well recovered groundwater is transferred via flowline to a nearby tank battery for proper disposal. Prior to sample collection, the Levey Well is turned off and allowed to stabilize for approximately one (1) hour prior to sampling. Once the Levey Well is properly purged and readings from the AquaTROLL 500 stabilize, a groundwater sample is collected.

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

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

Monitoring Wells MW-1 and MW-2

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

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

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

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

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

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

3.0 DATA EVALUTATION

3.1 Air Samples

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

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

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

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

3.2 Groundwater Samples

Ensolum compared the laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the June 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

TDS analytical results ranged from 1,160 mg/L to 1,470 mg/L in the Levey Well. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three (3) groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

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

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 0.0177 mg/L to 0.0222 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

Three (3) Nitrite as N exceedances of 1.23 mg/L to 3.86 mg/L from monitoring well MW-2 were observed during the July 2022 sampling, which are above the WQCC GQS of 1.0 mg/L.

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

4.0 RECOMMENDATIONS

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

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

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

- **Continue to monitor the Levey Well and monitoring wells MW-1 and MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved; and**
- **Implement monthly sampling for water and air on the Levey Well and monitoring wells MW-1 and MW-2 for the remainder of 2022.**

5.0 REFERENCES

- GSI Environmental Inc. Preliminary Draft -Results of Water Supply Well Sampling and Investigation. November 2019. Hobbs New Mexico Municipal Code, Title 13.04.017. Accessed Sept. 2020.
- New Mexico Environment Department. 2018. 20.6.2 NMAC: Title 20 (Environmental Protection), Chapter 6 (Water Quality), Part 2 (Ground and Surface Water Protection). Amended December 11th, 2019.
- Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the NewMexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.
- Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition ingroundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.
- Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methaneconcentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



SITE MAP

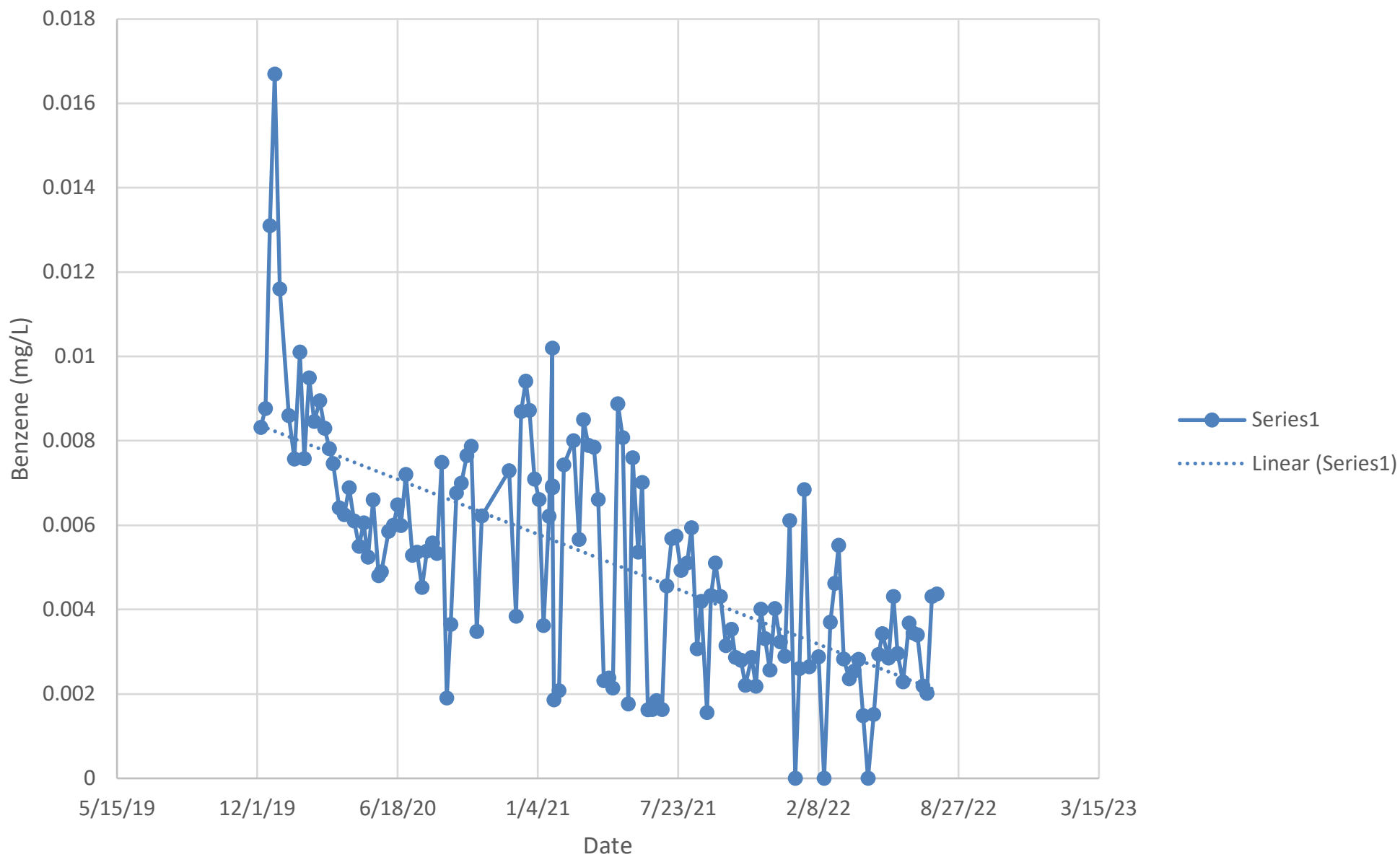
PERMIAN EOR, INC
S HOBBS G/SA UNIT
SE ¼ of the NW ¼, Sec 5, T29S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W

PROJECT NUMBER: 03B1417001

FIGURE

1

Levey Well Benzene Over Time





APPENDIX B

Tables

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY

Permian EOR - Levey Well

Hobbs, New Mexico

Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	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					

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	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	0.023

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Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.00288	0.0228	0.0122	0.00697	0.0458	0.0528	0.0112 J	<0.000286	0.00125	<0.000195	0.00194	<0.000259	<0.000318	<0.000214	<0.000183	0.000813 J	<0.000285	<0.000396	<0.000174	0.000211 J	<0.000481	0.00591	<0.00200	0.00329	<0.000228	<0.000623	0.0228	0.00693
	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200	0.00212	<0.000228	<0.000623	0.00987	0.00337
	6/9/2022	0.00228	0.0182	0.00874	0.00514	0.0352	0.0403	<0.00270	0.000536 J	0.000776 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000539 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00436	<0.00200	0.00197	<0.000228	<0.000623	0.00847	0.00271
	6/17/2022	0.00368	0.0282	0.0141	0.00881	0.0544	0.0632	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000744 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00678	<0.00200	0.00340	<0.000228	<0.000623	0.0152	0.00482
	6/23/2022	0.00344	0.0304	0.0149	0.00959	0.0599	0.0695	<0.00270	<0.000286	<0.000199	<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	0.00715	<0.00200	0.00313	<0.000228	<0.000623	0.0161	0.00509
	6/29/2022	0.00340	0.0286	0.0137	0.00879	0.0558	0.0646	<0.00270	<0.000286	<0.000199	0.00122	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000651 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00632	<0.00200	0.00274	<0.000228	<0.000623	0.0140	0.00428
7/1/2022	0.00219	0.0165	0.00779	0.00481	0.0314</																								

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

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TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																														
Permian EOR - Levey Well Hobbs, New Mexico																														
Well ID	Date	VOCs (mg/l)																												
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE	
MW-2	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.00500	<0.000259	NA	<0.000214	<0.000183	0.000660	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00223	<0.00200	0.000570 J	<0.000228	<0.000162	0.0125	0.00704	
	6/30/2020	0.0124	0.0193	0.0187	0.0196	0.0903	0.110	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00667	<0.0100	0.00243	<0.00100	<0.00100	0.0231	0.00815	
	8/20/2020	0.0148	0.0172	0.0182	0.0160	0.0802	0.0962	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00640	<0.0100	0.00170	<0.00100	<0.00100	0.0145	0.00421	
	10/23/2020	0.0250	0.00730	0.0248	0.0186	0.110	0.129	NA											NA											
	11/24/2020	0.0358	0.0613	0.0503	0.0465	0.221	0.2675	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149	
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121	
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102	
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533	
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103	
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698	
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517	
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129	
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674	
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994	
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496	
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100	
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.000396	<0.000174	<0.000199	<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	<0.000195	<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	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107	
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0.00270	0.000640 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183														

TABLE 1 - GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																													
Permian EOR - Levey Well Hobbs, New Mexico																													
Well ID	Date	VOCs (mg/l)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	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	<0.00214	<0.000183	0.00184	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.000546 J	<0.000228	<0.000623	0.0619	0.00491
	1/19/2022	0.0262	0.00733	0.0305	0.0147	0.229	0.249	<0.00270	0.00104	0.00147	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.000286	<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 Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.000286	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	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846
	6/1/2022	0.0387	0.00639	0.0414	0.0212	0.230	0.253	<0.00270	<0.000286	0.00172	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00147	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0156	<0.00200	0.00395	<0.000228	<0.000623	0.0573	0.0153
	6/9/2022	0.0194	0.00241	0.0228	0.0102	0.118	0.128	<0.00270	<0.000286	0.00124	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00104	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0108	<0.00200	0.00304	<0.000228	<0.000623	0.0356	0.00926
	6/17/2022	0.0214	0.00267	0.0262	0.00984	0.126	0.136	<0.00270	0.00115	0.00161	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0132	<0.00200	0.00436	<0.000228	<0.000623	0.0490	0.0130
	6/23/2022	0.0235	0.00355	0.0311	0.0139	0.139	0.153	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00120	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0144	<0.00200	0.00410	<0.000228	<0.000623	0.0464	0.0121
	6/29/2022	0.0119	<0.000500	0.0113	0.00209	0.0579	0.0600	<0.00270	<0.000286	0.000827 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000608 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00741	<0.00200	0.00193	<0.000228	<0.000623	0.0213	0.00586
	7/7/2022	0.0222	0.00257	0.0243																									



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



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY																
Permian EOR - Levey Well Hobbs, New Mexico																
Well ID	Date	(mg/l)													%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9
Levey Well	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
	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 Incimtent 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	0.3										



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY																			
Permian EOR - Levey Well Hobbs, New Mexico																			
Well ID	Date	(mg/l)													%	SU			
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-1	5/26/2020	NA	363	0.913	0.998	1.03	283	NA											7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA	6.75			
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA	6.30			
	10/23/2020	NA	353	NA															
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400	6.45			
	12/18/2020	NA	375	NA				414	79.7	5.41	117	1,380	1,160	<4.00	1.30	6.58			
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10	6.56			
	12/30/2020	NA	347	NA													6.37		
	1/6/2021	NA	325	NA													6.51		
	1/12/2021	NA	359						NA					1,160	<4.00	NA	6.42		
	1/20/2021	NA	353						NA					1,160	<4.00	NA	6.34		
	1/27/2021	NA	334						NA					1,010	<4.00	NA	6.44		
	2/3/2021	NA	368						NA					1,130	<4.00	NA	6.38		
	2/10/2021	NA	339						NA					1,160	<4.00	NA	6.45		
	2/24/2021	NA	343						NA					1,070	<4.00	NA	6.45		
	3/4/2021	NA	339						NA					1,070	<4.00	NA	6.38		
	3/10/2021	NA	324						NA					1,020	<4.00	NA	6.34		
	3/17/2021	NA	330						NA					1,020	<4.00	NA	6.16		
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5	NA					980	<4.00	NA	6.9			
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.7			
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.5			
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.6			
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.5			
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.5			
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.5			
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.8			
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.5			
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.3			
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.5			
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.6			
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.7			
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.8			
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.7			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9	NA					761	<4.00	NA	6.8			
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.8			
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.7			
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.7			
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.9			
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.6			
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.8			
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.8			
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.8			
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.9			
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.0			
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.9			
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.9			
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.9			
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.1			
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.1			
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.0			
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.1			
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.4			
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.8			
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.3			
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.9			
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.9			
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.1			
	12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.3			
	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.0			
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.7			
	1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.0			
	1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.1			
	2/2/2022		Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6	NA					380	<4.00	NA	6.9			
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5	NA					384	<4.00	NA	7.1			
	2/25/2022	NA	171	0.739	0.125	0.156	50.3	NA					342	<4.00	NA	7.1			
	3/3/2022	NA	158	0.531	0.198	0.181	45.9	NA					360	<4.00	NA	6.9			
	3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4	NA					323	<4.00	NA	7.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	3/16/2022	NA	145	0.546	0.147	<0.0293	38.1	NA					339	<4.00	NA	7.0			
3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9	NA					297	<4.00	NA	7.2				
3/31/2022	NA	143	0.568	0.164	<0.0293	40.4	NA					275	<4.00	NA	7.1				
4/6/2022	NA	133	0.677	0.186	<0.0293	39.7	NA					262	<4.00	NA	7.1				
4/13/2022	NA	129	0.767	<0.0391	<0.0293	40.9	NA					259	<4.00	NA	7.6				
4/20/2022	NA	173	0.574	0.152	0.176	42.4	NA					362	<4.00	NA	7.0				
4/28/2022	NA	136	0.608	0.0700 J	0.0717 J	41.7	NA					300	<4.00	NA	7.5				
5/5/2022	NA	118	0.746	<0.0391	1.75	41.1	NA					253	<4.00	NA	7.2				
5/10/2022	NA	116	0.709	0.0815 J	<0.0293	43.9	NA					250	<4.00	NA	7.2				
5/19/2022	NA	106	0.643	0.0743 J	0.199	41.0	NA					262	<4.00	NA	7.1				
5/26/2022	NA	98.7	0.720	0.0777 J	0.809	44.7	NA					256	<4.00	NA	7.2				
6/1/2022	NA	100	0.690	0.0629 J	<0.0293	46.4	NA					240	<4.00	NA	7.4				
6/9/2022	NA	99.9	0.743	<0.0391	<0.0293	46.6	NA					246	<4.00	NA	7.1				
6/17/2022	NA	83.5	0.710	0.146	0.275	47.9	NA					253	<4.00	NA	7.3				
6/23/2022	NA	83.9	0.616	0.238	<0.0293	47.7	NA					258	<4.00	NA	7.2				
6/29/2022	NA	84.8	0.644	0.199	0.556	48.0	NA					264	<4.00	NA	7.2				
7/7/2022	NA	83.7	0.660	0.0413 J	0.0458 J	47.7	NA					238	<4.00	NA	7.4				
7/13/2022	NA	91.3	0.778	0.102	<0.0293	49.2	NA					253	<4.00	NA	7.2				
7/20/2022	NA	81.5	0.766	<0.0391	<0.0293	48.5	NA					249	<4.00	NA	7.2				
7/27/2022	NA	85.8	0.766	0.0482 J	<0.0293	47.2	NA					268	<4.00	NA	7.7				



TABLE 2 - GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY																			
Permian EOR - Levey Well Hobbs, New Mexico																			
Well ID	Date	(mg/l)													%	SU			
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-2	5/26/2020	NA	106	0.341 J	1.920	0.639	120	NA											6.32
	6/30/2020	0.535	115	<0.500	1.13	0.656	111	478	59.6	6.66	102	1,320	1,320	<4.00	NA	6.36			
	8/20/2020	0.603	150	<0.500	1.10	0.439	122	559	73.5	7.46	102	1,700	1,350	<4.00	NA	6.01			
	10/23/2020	NA	107	NA															
	11/24/2020	0.565	180	0.172 J	1.08	0.557	136	841	85.5	12.8	116	1,670	1,450	<4.00	15.4	6.30			
	12/18/2020	NA	153	NA				494	64.9	6.63	98.0	1,410	1,380	<4.00	3.20	6.29			
	12/23/2020	0.621	165	0.179 J	1.11	0.639	126	472	65.7	5.96	101	1,810	1,430	<4.00	0.300	6.27			
	12/30/2020	NA	153	NA															6.15
	1/6/2021	NA	124	NA															6.24
	1/12/2021	NA	141	NA									1,350	<4.00	NA	6.20			
	1/20/2021	NA	133	NA									1,360	<4.00	NA	6.12			
	1/27/2021	NA	140	NA									1,360	<4.00	NA	6.24			
	2/3/2021	NA	178	NA									1,390	<4.00	NA	6.17			
	2/10/2021	NA	133	NA									1,380	<4.00	NA	6.19			
	2/24/2021	NA	146	NA									1,370	<4.00	NA	6.17			
	3/4/2021	NA	166	NA									1,380	<4.00	NA	6.07			
	3/10/2021	NA	175	NA									1,390	<4.00	NA	6.14			
	3/17/2021	NA	163	NA									1,400	<4.00	NA	5.87			
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA					1,420	<4.00	NA	6.5			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA					1,330	<4.00	NA	6.4			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA					1,430	<4.00	NA	6.2			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA					1,380	<4.00	NA	6.1			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA					1,340	<4.00	NA	6.1			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA					1,380	<4.00	NA	6.2			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA					1,350	<4.00	NA	6.3			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA					1,320	<4.00	NA	6.3			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA					1,370	<4.00	NA	6.2			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA					1,260	<4.00	NA	6.5			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA					1,250	<4.00	NA	6.2			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA					1,260	<4.00	NA	6.1			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA					1,208	<4.00	NA	6.5			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA					1,260	<4.00	NA	6.5			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA					1,230	<4.00	NA	6.4			
	7/1/2021	Levey Well Now Running Full Time																	
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA					1,120	<4.00	NA	6.4			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA					1,350	<4.00	NA	6.4			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA					1,280	<4.00	NA	6.3			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA					1,250	<4.00	NA	6.4			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA					1,200	<4.00	NA	6.5			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA					1,300	<4.00	NA	6.3			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA					1,290	<4.00	NA	6.4			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA					1,270	<4.00	NA	6.5			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA					1,320	<4.00	NA	6.4			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA					1,280	<4.00	NA	6.4			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA					1,270	<4.00	NA	6.4			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA					1,250	<4.00	NA	6.3			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA					1,300	<4.00	NA	6.4			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA					1,280	<4.00	NA	6.4			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA					1,320	<4.00	NA	6.5			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA					1,270	<4.00	NA	6.5			
	11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA					1,250	<4.00	NA	6.6			
	11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA					1,240	<4.00	NA	6.5			
	11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA					1,140	<4.00	NA	6.6			
	11/24/2021	NA	163	<0.500	0.680	0.539	127	NA					1,500	<4.00	NA	6.3			
	12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA					1,240	<4.00	NA	6.9			
	12/8/2021	NA	188	<0.100	0.759	0.684	123	NA					1,250	<4.00	NA	6.3			
	12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA					1,180	<4.00	NA	6.3			
	12/22/2021	NA	163	<0.100	0.670	0.462	122	NA					1,280	<4.00	NA	6.4			
	12/29/2021	NA	210	<0.100	1.02	0.415	115	NA					1,280	<4.00	NA	6.3			
	1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA					1,300	<4.00	NA	6.4			
	1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA					1,150	<4.00	NA	6.2			
	1/19/2022	NA	120	<0.100	0.591	0.757	104	NA					1,290	<4.00	NA	6.1			
	1/26/2022	NA	120	<0.100	0.592	0.608	100	NA					1,270	<4.00	NA	6.1			
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																	
	2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA					1,290	<4.00	NA	6.1			
	2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA					1,320	<4.00	NA	6.2			
	2/25/2022	NA	133	0.704	0.536	0.647	154	NA					1,280	<4.00	NA	6.3			
	3/3/2022	NA	126	<0.100	0.776	0.992	112	NA					1,360	<4.00	NA	6.1			
	3/9/2022	NA	167	<0.100	0.789	2.12	133	NA					1,330	<4.00	NA	6.2			
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																	
	3/16/2022	NA	165	<0.100	0.890	1.47	135	NA					1,350	<4.00	NA	6.2			
3/24/2022	NA	140	<0.100	<0.0391	0.389	120	NA					1,320	<4.00	NA	6.3				
3/31/2022	NA	150	<0.100	<0.0391	1.65	106	NA					1,340	<4.00	NA	6.3				
4/6/2022	NA	130	0.175 J	0.619	1.60	111	NA					1,360	<4.00	NA	6.2				
4/13/2022	NA	135	0.271 J	0.589	1.67	108	NA					1,380	<4.00	NA	6.5				
4/20/2022	NA	198	0.174 J	0.966	0.722	121	NA					1,330	<4.00	NA	6.4				
4/28/2022	NA	156	0.172 J	0.711	0.434	118	NA					1,380	<4.00	NA	6.4				
5/5/2022	NA	116	0.229 J	0.586	11.5	112	NA					1,330	<4.00	NA	6.3				
5/10/2022	NA	134	0.230 J	0.548	1.83	120	NA					1,320	<4.00	NA	6.3				
5/19/2022	NA	133	0.116 J	<0.0391	0.373	118	NA					1,380	<4.00	NA	6.2				
5/26/2022	NA	107	0.196 J	0.392	1.14	104	NA					1,320	<4.00	NA	6.0				
6/1/2022	NA	130	0.107 J	0.481	1.47	116	NA					1,340	<4.00	NA	6.3				
6/9/2022	NA	103	<0.100	0.330	0.236	103	NA					1,320	<4.00	NA	6.2				
6/17/2022	NA	99.0	0.213 J	0.395	0.702	102	NA					1,290	<4.00	NA	6.4				
6/23/2022	NA	109	<0.100	0.494	5.21	107	NA					1,270	<4.00	NA	6.3				
6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7	NA					1,330	<4.00	NA	6.2				
7/7/2022	NA	107	0.141 J	0.399	0.440	98.3	NA					1,300	<4.00	NA	6.4				
7/13/2022	NA	95.3	0.262 J	0.306	1.23	100	NA					1,280	<4.00	NA	6.2				
7/20/2022	NA	134	<0.100	0.485	1.46	122	NA					1,360	<4.00	NA	6.3				
7/27/2022	NA	101	<0.100	0.403	3.86	105	NA					1,340	<4.00	NA	6.4				



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



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

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

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																						
Permian EOR - Levey Well																																						
Hobbs, New Mexico																																						
Well ID	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<5.11	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<1.70	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000
	4/15/2021	1228	1,200	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<1.64	<6.60	205	<1.70	<2.72	<1.18	50.5	<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	<0.704	88.9	34.4	32,400
	6/22/2021	1240	1,190	<6.39	<7.76	<6.22	<4.13	<10.3	2,440	<8.10	<7.93	347	9.49	78.0	<11.2	<9.89	<8.18	7,510	20.4	<6.94	<51.1	168	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	38.8	29.6	<7.04	52.2	21.9	58,200
	6/30/2021	1130	3,870	<6.39	<7.76	41.1	<4.13	<10.3	2,590	<8.10	<7.93	1,230	17.9	78.5	<11.2	<9.89	1,120	6,450	<9.83	<6.94	<51.1	433	<51.2	<8.19	<33.0	310												

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																							
Permian EOR - Levey Well																																							
Hobbs, New Mexico																																							
Well ID	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Napthalene	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
		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																																				
	1/17/2022	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																																				
		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	
		1/19/2022	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	
		1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000	
	2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000	
		1022	Initiate Vacuum Recovery Event																																				
		1043	104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1.96	30,000	
		1118	<29.7	25.9	<7.76	<6.22	<4.13	<10.3	737	<8.10	<7.93	42.2	<8.67	<9.82	<11.2	<9.89	290	610	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	20.3	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	8,510	
		1134	Vacuum Recovery Event Terminated																																				
	2/25/2022	1241	<2.97	<0.639	<0.776	<0.622	1.40	<1.03	1,380	<0.810	<0.793	<2.36	<0.867	<0.982	1.58	1.76	272	1,290	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	7.61	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	13,200	
		1145	250	<0.639	<0.776	21.2	0.413	<1.03	12,400	<0.810	<0.793	4.68	2.41	4.13	<1.12	<0.989	3,740	26,100	2.23	<0.694	<5.11	46.9	<5.12	<0.819	3.50	25.8	<0.851	<1.36	<0.590	9.12	<1.09	<1.07	7.85	6.23	<0.704	8.15	2.49	107,000	
		1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	520	<40.5	<39.6	837	<43.4	<49.1	<56.2	<49.5	220	3,390	<49.2	47.6	<256	<184	<256	766	<165	8,480	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300	
	2/28/2022	1406	Initiate Vacuum Recovery Event																																				
		1510	<2.97	1.79	<0.776	<0.622	<0.413	<1.03	305	<0.810	<0.793	7.45	2.05	2.40	<1.12	2.13	182	511	1.12	<0.694	<5.11	10.6	<5.12	<0.819	<3.30	25.6	<0.851	<1.36	<0.590	3.74	<4.66	<1.07	4.96	4.91	<0.704	3.20	1.44	6,440	
		1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	654	<40.5	<39.6	684	<43.4	<49.1	<56.2	<49.5	263	2,520	<49.2	38.5	<256	<184	<256	<40.9	<165	6,370	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300	
		1526	Vacuum Recovery Event Terminated																																				
		1635	<2.97	1.30	<0.776	<0.622	1.53	<1.03	76.8	<0.810	<0.793	7.50	1.76	2.07	1.28	2.53	64.2	117	1.17	0.847	<5.11	<3.69	<5.12	<0.819	<3.30	40.3	<0.851	<1.36	<0.590	2.26	<1.09	<1.07	4.70	4.25	<0.704	3.42	1.38	2,420	
	3/9/2022	1225	2,260	<128	<268	<124	<82.6	<206	43,400	<162	<159	<471	<173	<196	<225	<198	8,470	41,200	<197	<139	<1,020	<737	<1,020	<164	<660	5,330	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	352,000	
	3/14/2022	0855	<297	110	<77.6	<62.2	<41.3	<103	277,000	<81.0	<79.3	354	<86.7	<98.2	<112	<98.9	33,500	286,000	<98.3	<69.4	<511	894	<512	<81.9	<330	7,050	<85.1	<136	<59.0	254	<109	<107	<98.2	158	<70.4	<173	<86.7	1,230,000	

TABLE 4 - AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY																																						
Permian EOR - Levey Well																																						
Hobbs, New Mexico																																						
Well ID	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	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	&lt								



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16684-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

7/14/2022 2:40:37 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

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

Laboratory Job ID: 880-16684-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-16684-1
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-16684-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-16684-1
SDG: Hobbs NM

Job ID: 880-16684-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-16684-1**

Receipt

The sample was received on 7/7/2022 4:23 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 1.2°C

GC/MS VOA

Method 8260C: The method blank for preparation batch MB 860-60170 contained 2-Butanone and 1,4-Dichlorobenzene 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 8260C: The matrix spike(MS) recoveries for the following sample associated with analytical batch 860-60324 were outside control limits: (820-4872-B-3 MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-60256 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-60257 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 860-60412 and analytical batch 860-60593 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16684-1

Date Collected: 07/07/22 11:00

Matrix: Water

Date Received: 07/07/22 16:23

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00219		0.00100	0.000214	mg/L		07/08/22 17:51	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		07/08/22 17:51	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		07/08/22 17:51	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		07/08/22 17:51	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		07/08/22 17:51	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		07/08/22 17:51	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		07/08/22 17:51	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		07/08/22 17:51	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		07/08/22 17:51	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		07/08/22 17:51	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		07/08/22 17:51	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		07/08/22 17:51	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		07/08/22 17:51	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		07/08/22 17:51	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		07/08/22 17:51	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		07/08/22 17:51	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		07/08/22 17:51	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		07/08/22 17:51	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		07/08/22 17:51	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		07/08/22 17:51	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		07/08/22 17:51	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		07/08/22 17:51	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		07/08/22 17:51	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		07/08/22 17:51	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		07/08/22 17:51	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		07/08/22 17:51	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		07/08/22 17:51	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		07/08/22 17:51	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		07/08/22 17:51	1
Ethylbenzene	0.00779		0.00100	0.000515	mg/L		07/08/22 17:51	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		07/08/22 17:51	1
Isopropylbenzene	0.00372		0.00100	0.000161	mg/L		07/08/22 17:51	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		07/08/22 17:51	1
m,p-Xylenes	0.0314		0.0100	0.000330	mg/L		07/08/22 17:51	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		07/08/22 17:51	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		07/08/22 17:51	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286	mg/L		07/08/22 17:51	1
N-Propylbenzene	0.00172		0.00100	0.000179	mg/L		07/08/22 17:51	1
o-Xylene	0.00481		0.00100	0.000192	mg/L		07/08/22 17:51	1
p-Cymene (p-Isopropyltoluene)	0.000399	J	0.00100	0.000233	mg/L		07/08/22 17:51	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		07/08/22 17:51	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		07/08/22 17:51	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		07/08/22 17:51	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		07/08/22 17:51	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		07/08/22 17:51	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		07/08/22 17:51	1
Toluene	0.0165		0.00100	0.000500	mg/L		07/08/22 17:51	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		07/08/22 17:51	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		07/08/22 17:51	1

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Client Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16684-1

Date Collected: 07/07/22 11:00

Matrix: Water

Date Received: 07/07/22 16:23

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 17:51	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 17:51	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/08/22 17:51	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/08/22 17:51	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/08/22 17:51	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/08/22 17:51	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/08/22 17:51	1
1,2,4-Trimethylbenzene	0.00732		0.00100	0.000252 mg/L			07/08/22 17:51	1
1,3,5-Trimethylbenzene	0.00234		0.00100	0.000279 mg/L			07/08/22 17:51	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/08/22 17:51	1
Xylenes, Total	0.0362		0.0100	0.000330 mg/L			07/08/22 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		07/08/22 17:51	1
Dibromofluoromethane (Surr)	98		75 - 131		07/08/22 17:51	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		07/08/22 17:51	1
Toluene-d8 (Surr)	101		80 - 117		07/08/22 17:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	0.00545	J	0.0500	0.00270 mg/L			07/09/22 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		07/09/22 15:30	1
Dibromofluoromethane (Surr)	99		75 - 131		07/09/22 15:30	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		07/09/22 15:30	1
Toluene-d8 (Surr)	103		80 - 117		07/09/22 15:30	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.425	J	0.500	0.0711 mg/L			07/08/22 20:31	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/08/22 20:31	1
Chloride	214		0.500	0.200 mg/L			07/08/22 20:31	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			07/08/22 20:31	1
Fluoride	0.609		0.500	0.100 mg/L			07/08/22 20:31	1
Sulfate	46.0		0.500	0.109 mg/L			07/08/22 20:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	251		10.0	5.76 mg/L		07/11/22 10:45	07/11/22 21:20	50
Magnesium	50.6		0.200	0.0428 mg/L		07/11/22 10:45	07/11/22 20:47	1
Potassium	3.88		0.500	0.0914 mg/L		07/11/22 10:45	07/11/22 20:47	1
Sodium	77.0		0.500	0.152 mg/L		07/11/22 10:45	07/11/22 20:47	1
SiO2	65.7		1.07	0.471 mg/L		07/11/22 10:45	07/11/22 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-2.28			%			07/13/22 14:00	1
Alkalinity	592		4.00	4.00 mg/L			07/11/22 12:56	1
Bicarbonate Alkalinity as CaCO3	592		4.00	4.00 mg/L			07/11/22 12:56	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 12:56	1

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Client Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 07/07/22 11:00
Date Received: 07/07/22 16:23

Lab Sample ID: 880-16684-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			07/11/22 12:56	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			07/11/22 12:56	1
Total Dissolved Solids	1470		20.0	20.0	mg/L			07/10/22 15:12	1
pH	6.5	HF			SU			07/11/22 12:50	1
Temperature	22.0	HF			Celsius			07/11/22 12:50	1

Surrogate Summary

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

Job ID: 880-16684-1
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)
820-4872-B-3 MS	Matrix Spike	101	98	99	100
880-16634-C-1 MS	Matrix Spike	102	98	97	99
880-16684-1	Levey Well	99	98	106	101
880-16684-1 - RA	Levey Well	101	99	106	103
LCS 860-60170/3	Lab Control Sample	100	101	100	99
LCS 860-60324/3	Lab Control Sample	102	98	98	99
LCSD 860-60170/4	Lab Control Sample Dup	102	99	96	100
LCSD 860-60324/4	Lab Control Sample Dup	101	99	99	100
MB 860-60170/31	Method Blank	102	101	103	101
MB 860-60324/9	Method Blank	100	102	105	101
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: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-60170/31

Matrix: Water

Analysis Batch: 60170

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 10:48	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/08/22 10:48	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/08/22 10:48	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/08/22 10:48	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/08/22 10:48	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/08/22 10:48	1
2-Butanone	0.003761	J	0.0500	0.00270 mg/L			07/08/22 10:48	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/08/22 10:48	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/08/22 10:48	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/08/22 10:48	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/08/22 10:48	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/08/22 10:48	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 10:48	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/08/22 10:48	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/08/22 10:48	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/08/22 10:48	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/08/22 10:48	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/08/22 10:48	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/08/22 10:48	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/08/22 10:48	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/08/22 10:48	1
1,4-Dichlorobenzene	0.0002430	J	0.00100	0.000199 mg/L			07/08/22 10:48	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/08/22 10:48	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/08/22 10:48	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/08/22 10:48	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/08/22 10:48	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/08/22 10:48	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/08/22 10:48	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/08/22 10:48	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/08/22 10:48	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/08/22 10:48	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 10:48	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/08/22 10:48	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/08/22 10:48	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/08/22 10:48	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/08/22 10:48	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/08/22 10:48	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/08/22 10:48	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/08/22 10:48	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/08/22 10:48	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/08/22 10:48	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/08/22 10:48	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/08/22 10:48	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/08/22 10:48	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/08/22 10:48	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/08/22 10:48	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 10:48	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 10:48	1

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-60170/31

Matrix: Water

Analysis Batch: 60170

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		07/08/22 10:48	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		07/08/22 10:48	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		07/08/22 10:48	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		07/08/22 10:48	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		07/08/22 10:48	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		07/08/22 10:48	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		07/08/22 10:48	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		07/08/22 10:48	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		07/08/22 10:48	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		07/08/22 10:48	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		07/08/22 10:48	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		07/08/22 10:48	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		07/08/22 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/08/22 10:48	1
Dibromofluoromethane (Surr)	101		75 - 131		07/08/22 10:48	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		07/08/22 10:48	1
Toluene-d8 (Surr)	101		80 - 117		07/08/22 10:48	1

Lab Sample ID: LCS 860-60170/3

Matrix: Water

Analysis Batch: 60170

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	0.04991		mg/L		100	66 - 142
Bromobenzene	0.0500	0.05110		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.05055		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.05152		mg/L		103	75 - 125
Bromoform	0.0500	0.05280		mg/L		106	75 - 125
Bromomethane	0.0500	0.04394		mg/L		88	60 - 140
2-Butanone	0.250	0.2465		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.04959		mg/L		99	62 - 125
Chlorobenzene	0.0500	0.05012		mg/L		100	60 - 133
Chloroethane	0.0500	0.04856		mg/L		97	60 - 140
Chloroform	0.0500	0.05120		mg/L		102	70 - 130
Chloromethane	0.0500	0.04755		mg/L		95	60 - 140
2-Chlorotoluene	0.0500	0.05123		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05213		mg/L		104	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05164		mg/L		103	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05273		mg/L		105	74 - 125
Dibromochloromethane	0.0500	0.05144		mg/L		103	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05311		mg/L		106	59 - 125
1,2-Dibromoethane	0.0500	0.05150		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05300		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05216		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.05169		mg/L		103	75 - 125
Dichlorodifluoromethane	0.0500	0.05160		mg/L		103	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-60170/3

Matrix: Water

Analysis Batch: 60170

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	0.05051		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.04987		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.04766		mg/L		95	59 - 172
1,2-Dichloropropane	0.0500	0.05058		mg/L		101	74 - 125
1,3-Dichloropropane	0.0500	0.05088		mg/L		102	75 - 125
2,2-Dichloropropane	0.0500	0.05367		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.04946		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.05096		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05297		mg/L		106	75 - 125
Isopropylbenzene	0.0500	0.05309		mg/L		106	75 - 125
Methylene Chloride	0.0500	0.04902		mg/L		98	75 - 125
m,p-Xylenes	0.0500	0.05203		mg/L		104	75 - 125
MTBE	0.0500	0.05255		mg/L		105	65 - 135
Naphthalene	0.0500	0.06080		mg/L		122	70 - 130
n-Butylbenzene	0.0500	0.05386		mg/L		108	75 - 125
N-Propylbenzene	0.0500	0.05176		mg/L		104	75 - 125
o-Xylene	0.0500	0.05225		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05465		mg/L		109	75 - 125
sec-Butylbenzene	0.0500	0.05389		mg/L		108	75 - 125
Styrene	0.0500	0.05285		mg/L		106	75 - 125
tert-Butylbenzene	0.0500	0.05326		mg/L		107	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05236		mg/L		105	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05275		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.04933		mg/L		99	71 - 125
Toluene	0.0500	0.04917		mg/L		98	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04714		mg/L		94	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05127		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05901		mg/L		118	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05622		mg/L		112	75 - 135
1,1,1-Trichloroethane	0.0500	0.05146		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.05081		mg/L		102	75 - 127
Trichloroethene	0.0500	0.04984		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.05142		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.05226		mg/L		105	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05335		mg/L		107	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05241		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.04923		mg/L		98	60 - 140

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

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-60170/4

Matrix: Water

Analysis Batch: 60170

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	0.04882		mg/L		98	66 - 142	2	25
Bromobenzene	0.0500	0.04989		mg/L		100	75 - 125	2	25
Bromochloromethane	0.0500	0.04933		mg/L		99	60 - 140	2	25
Bromodichloromethane	0.0500	0.04954		mg/L		99	75 - 125	4	25
Bromoform	0.0500	0.04984		mg/L		100	75 - 125	6	25
Bromomethane	0.0500	0.04195		mg/L		84	60 - 140	5	25
2-Butanone	0.250	0.2203		mg/L		88	60 - 140	11	25
Carbon tetrachloride	0.0500	0.05009		mg/L		100	62 - 125	1	25
Chlorobenzene	0.0500	0.04970		mg/L		99	60 - 133	1	25
Chloroethane	0.0500	0.04793		mg/L		96	60 - 140	1	25
Chloroform	0.0500	0.04991		mg/L		100	70 - 130	3	25
Chloromethane	0.0500	0.04486		mg/L		90	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05231		mg/L		105	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05263		mg/L		105	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05030		mg/L		101	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05065		mg/L		101	74 - 125	4	25
Dibromochloromethane	0.0500	0.05005		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05015		mg/L		100	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.04960		mg/L		99	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05170		mg/L		103	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05268		mg/L		105	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05126		mg/L		103	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05215		mg/L		104	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.04885		mg/L		98	72 - 125	3	25
1,2-Dichloroethane	0.0500	0.04846		mg/L		97	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04742		mg/L		95	59 - 172	1	25
1,2-Dichloropropane	0.0500	0.04886		mg/L		98	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04898		mg/L		98	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.05360		mg/L		107	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.04953		mg/L		99	75 - 125	0	25
Ethylbenzene	0.0500	0.05108		mg/L		102	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05765		mg/L		115	75 - 125	8	25
Isopropylbenzene	0.0500	0.05369		mg/L		107	75 - 125	1	25
Methylene Chloride	0.0500	0.04744		mg/L		95	75 - 125	3	25
m,p-Xylenes	0.0500	0.05192		mg/L		104	75 - 125	0	25
MTBE	0.0500	0.04903		mg/L		98	65 - 135	7	25
Naphthalene	0.0500	0.05637		mg/L		113	70 - 130	8	25
n-Butylbenzene	0.0500	0.05738		mg/L		115	75 - 125	6	25
N-Propylbenzene	0.0500	0.05427		mg/L		109	75 - 125	5	25
o-Xylene	0.0500	0.05151		mg/L		103	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05736		mg/L		115	75 - 125	5	25
sec-Butylbenzene	0.0500	0.05685		mg/L		114	75 - 125	5	25
Styrene	0.0500	0.05194		mg/L		104	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05582		mg/L		112	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05094		mg/L		102	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05060		mg/L		101	74 - 125	4	25
Tetrachloroethene	0.0500	0.05036		mg/L		101	71 - 125	2	25
Toluene	0.0500	0.04917		mg/L		98	59 - 139	0	25

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-60170/4

Matrix: Water

Analysis Batch: 60170

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	0.04601		mg/L		92	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04939		mg/L		99	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05617		mg/L		112	75 - 137	5	25
1,2,4-Trichlorobenzene	0.0500	0.05588		mg/L		112	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.05155		mg/L		103	75 - 125	0	25
1,1,2-Trichloroethane	0.0500	0.04963		mg/L		99	75 - 127	2	25
Trichloroethene	0.0500	0.04994		mg/L		100	62 - 137	0	25
Trichlorofluoromethane	0.0500	0.05065		mg/L		101	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.05038		mg/L		101	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.05473		mg/L		109	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05445		mg/L		109	60 - 140	4	25
Vinyl chloride	0.0500	0.04861		mg/L		97	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Lab Sample ID: MB 860-60324/9

Matrix: Water

Analysis Batch: 60324

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L		07/09/22 11:24	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		07/09/22 11:24	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		07/09/22 11:24	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		07/09/22 11:24	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		07/09/22 11:24	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		07/09/22 11:24	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		07/09/22 11:24	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		07/09/22 11:24	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		07/09/22 11:24	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		07/09/22 11:24	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		07/09/22 11:24	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		07/09/22 11:24	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		07/09/22 11:24	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		07/09/22 11:24	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		07/09/22 11:24	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		07/09/22 11:24	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		07/09/22 11:24	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		07/09/22 11:24	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		07/09/22 11:24	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		07/09/22 11:24	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		07/09/22 11:24	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		07/09/22 11:24	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		07/09/22 11:24	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		07/09/22 11:24	1

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-60324/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60324

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/09/22 11:24	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/09/22 11:24	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/09/22 11:24	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/09/22 11:24	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/09/22 11:24	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/09/22 11:24	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/09/22 11:24	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/09/22 11:24	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/09/22 11:24	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/09/22 11:24	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/09/22 11:24	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/09/22 11:24	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/09/22 11:24	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/09/22 11:24	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/09/22 11:24	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/09/22 11:24	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/09/22 11:24	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/09/22 11:24	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/09/22 11:24	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/09/22 11:24	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/09/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/09/22 11:24	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/09/22 11:24	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/09/22 11:24	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/09/22 11:24	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/09/22 11:24	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/09/22 11:24	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/09/22 11:24	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/09/22 11:24	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/09/22 11:24	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/09/22 11:24	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/09/22 11:24	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/09/22 11:24	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/09/22 11:24	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/09/22 11:24	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/09/22 11:24	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/09/22 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		07/09/22 11:24	1
Dibromofluoromethane (Surr)	102		75 - 131		07/09/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/09/22 11:24	1
Toluene-d8 (Surr)	101		80 - 117		07/09/22 11:24	1

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-60324/3

Matrix: Water

Analysis Batch: 60324

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	0.04950		mg/L		99	66 - 142
Bromobenzene	0.0500	0.05020		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05015		mg/L		100	60 - 140
Bromodichloromethane	0.0500	0.04981		mg/L		100	75 - 125
Bromoform	0.0500	0.05123		mg/L		102	75 - 125
Bromomethane	0.0500	0.03998		mg/L		80	60 - 140
2-Butanone	0.250	0.2449		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.04874		mg/L		97	62 - 125
Chlorobenzene	0.0500	0.04954		mg/L		99	60 - 133
Chloroethane	0.0500	0.05075		mg/L		101	60 - 140
Chloroform	0.0500	0.04955		mg/L		99	70 - 130
Chloromethane	0.0500	0.04369		mg/L		87	60 - 140
2-Chlorotoluene	0.0500	0.05077		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05171		mg/L		103	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05029		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05198		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05044		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05313		mg/L		106	59 - 125
1,2-Dibromoethane	0.0500	0.05179		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05161		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05095		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05029		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.04714		mg/L		94	70 - 130
1,1-Dichloroethane	0.0500	0.04960		mg/L		99	72 - 125
1,2-Dichloroethane	0.0500	0.04992		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.04751		mg/L		95	59 - 172
1,2-Dichloropropane	0.0500	0.04955		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.05038		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05175		mg/L		103	75 - 125
1,1-Dichloropropene	0.0500	0.04923		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.05092		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05058		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.05124		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.04914		mg/L		98	75 - 125
m,p-Xylenes	0.0500	0.05105		mg/L		102	75 - 125
MTBE	0.0500	0.05096		mg/L		102	65 - 135
Naphthalene	0.0500	0.05737		mg/L		115	70 - 130
n-Butylbenzene	0.0500	0.05254		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.05133		mg/L		103	75 - 125
o-Xylene	0.0500	0.05148		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05271		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05182		mg/L		104	75 - 125
Styrene	0.0500	0.05175		mg/L		103	75 - 125
tert-Butylbenzene	0.0500	0.05161		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05020		mg/L		100	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05257		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.04966		mg/L		99	71 - 125
Toluene	0.0500	0.04954		mg/L		99	59 - 139

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-60324/3

Matrix: Water

Analysis Batch: 60324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	0.0500	0.04874		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05062		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05588		mg/L		112	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05374		mg/L		107	75 - 135
1,1,1-Trichloroethane	0.0500	0.04947		mg/L		99	75 - 125
1,1,2-Trichloroethane	0.0500	0.04984		mg/L		100	75 - 127
Trichloroethene	0.0500	0.04948		mg/L		99	62 - 137
Trichlorofluoromethane	0.0500	0.04894		mg/L		98	60 - 140
1,2,3-Trichloropropane	0.0500	0.05289		mg/L		106	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05309		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05210		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.04862		mg/L		97	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Lab Sample ID: LCSD 860-60324/4

Matrix: Water

Analysis Batch: 60324

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	0.05053		mg/L		101	66 - 142	2	25
Bromobenzene	0.0500	0.04975		mg/L		99	75 - 125	1	25
Bromochloromethane	0.0500	0.05023		mg/L		100	60 - 140	0	25
Bromodichloromethane	0.0500	0.05011		mg/L		100	75 - 125	1	25
Bromoform	0.0500	0.05041		mg/L		101	75 - 125	2	25
Bromomethane	0.0500	0.03991		mg/L		80	60 - 140	0	25
2-Butanone	0.250	0.2284		mg/L		91	60 - 140	7	25
Carbon tetrachloride	0.0500	0.05273		mg/L		105	62 - 125	8	25
Chlorobenzene	0.0500	0.05052		mg/L		101	60 - 133	2	25
Chloroethane	0.0500	0.05075		mg/L		102	60 - 140	0	25
Chloroform	0.0500	0.05073		mg/L		101	70 - 130	2	25
Chloromethane	0.0500	0.04433		mg/L		89	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05108		mg/L		102	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05192		mg/L		104	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.05144		mg/L		103	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05135		mg/L		103	74 - 125	1	25
Dibromochloromethane	0.0500	0.05030		mg/L		101	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05030		mg/L		101	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05086		mg/L		102	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05062		mg/L		101	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05105		mg/L		102	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05016		mg/L		100	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.05280		mg/L		106	70 - 130	11	25
1,1-Dichloroethane	0.0500	0.04939		mg/L		99	72 - 125	0	25

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-60324/4

Matrix: Water

Analysis Batch: 60324

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
1,2-Dichloroethane	0.0500	0.04951		mg/L		99	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04997		mg/L		100	59 - 172	5	25
1,2-Dichloropropane	0.0500	0.04901		mg/L		98	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05000		mg/L		100	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05374		mg/L		107	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05296		mg/L		106	75 - 125	7	25
Ethylbenzene	0.0500	0.05258		mg/L		105	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05484		mg/L		110	75 - 125	8	25
Isopropylbenzene	0.0500	0.05422		mg/L		108	75 - 125	6	25
Methylene Chloride	0.0500	0.04779		mg/L		96	75 - 125	3	25
m,p-Xylenes	0.0500	0.05327		mg/L		107	75 - 125	4	25
MTBE	0.0500	0.04957		mg/L		99	65 - 135	3	25
Naphthalene	0.0500	0.05658		mg/L		113	70 - 130	1	25
n-Butylbenzene	0.0500	0.05586		mg/L		112	75 - 125	6	25
N-Propylbenzene	0.0500	0.05341		mg/L		107	75 - 125	4	25
o-Xylene	0.0500	0.05260		mg/L		105	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05605		mg/L		112	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05539		mg/L		111	75 - 125	7	25
Styrene	0.0500	0.05212		mg/L		104	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05399		mg/L		108	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05027		mg/L		101	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04995		mg/L		100	74 - 125	5	25
Tetrachloroethene	0.0500	0.05349		mg/L		107	71 - 125	7	25
Toluene	0.0500	0.05065		mg/L		101	59 - 139	2	25
trans-1,2-Dichloroethene	0.0500	0.04949		mg/L		99	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05073		mg/L		101	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05579		mg/L		112	75 - 137	0	25
1,2,4-Trichlorobenzene	0.0500	0.05405		mg/L		108	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.05185		mg/L		104	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.04881		mg/L		98	75 - 127	2	25
Trichloroethene	0.0500	0.05240		mg/L		105	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.05200		mg/L		104	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04992		mg/L		100	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05366		mg/L		107	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05341		mg/L		107	60 - 140	2	25
Vinyl chloride	0.0500	0.05154		mg/L		103	60 - 140	6	25

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

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-60256/3

Matrix: Water

Analysis Batch: 60256

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			07/08/22 14:35	1
Chloride	<0.200	U	0.500	0.200 mg/L			07/08/22 14:35	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/08/22 14:35	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/08/22 14:35	1

Lab Sample ID: LCS 860-60256/6

Matrix: Water

Analysis Batch: 60256

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	9.997		mg/L		100	90 - 110
Chloride	10.0	10.28		mg/L		103	90 - 110
Fluoride	10.0	10.07		mg/L		101	90 - 110
Sulfate	10.0	9.986		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-60256/7

Matrix: Water

Analysis Batch: 60256

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	9.984		mg/L		100	90 - 110	0	20
Chloride	10.0	10.25		mg/L		103	90 - 110	0	20
Fluoride	10.0	10.09		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.987		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-60256/5

Matrix: Water

Analysis Batch: 60256

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	0.5153		mg/L		103	50 - 150
Chloride	0.500	0.5211		mg/L		104	50 - 150
Fluoride	0.500	0.4291	J	mg/L		86	50 - 150
Sulfate	0.500	0.5182		mg/L		104	50 - 150

Lab Sample ID: 880-16684-1 MS

Matrix: Water

Analysis Batch: 60256

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.425	J	10.0	10.24		mg/L		98	90 - 110
Chloride	214		10.0	218.0	4	mg/L		45	90 - 110
Fluoride	0.609		10.0	10.33		mg/L		97	90 - 110
Sulfate	46.0		10.0	55.66	4	mg/L		97	90 - 110

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-16684-1 MSD

Matrix: Water

Analysis Batch: 60256

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	0.425	J	10.0	10.28		mg/L		99	90 - 110	0	20
Chloride	214		10.0	217.8	4	mg/L		43	90 - 110	0	20
Fluoride	0.609		10.0	10.38		mg/L		98	90 - 110	0	20
Sulfate	46.0		10.0	55.74	4	mg/L		97	90 - 110	0	20

Lab Sample ID: MB 860-60257/3

Matrix: Water

Analysis Batch: 60257

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			07/08/22 14:35	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/08/22 14:35	1

Lab Sample ID: LCS 860-60257/6

Matrix: Water

Analysis Batch: 60257

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	9.931		mg/L		99	80 - 120
Nitrite as N	5.00	4.941		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-60257/7

Matrix: Water

Analysis Batch: 60257

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	9.935		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	4.976		mg/L		100	80 - 120	1	20

Lab Sample ID: LLCS 860-60257/4

Matrix: Water

Analysis Batch: 60257

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	0.09741	J	mg/L		97	50 - 150
Nitrite as N	0.100	0.08941	J	mg/L		89	50 - 150

Lab Sample ID: 880-16684-1 MS

Matrix: Water

Analysis Batch: 60257

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.0391	U	10.0	9.959		mg/L		100	80 - 120
Nitrite as N	<0.0293	U F1	2.50	1.998		mg/L		80	80 - 120

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-16684-1 MSD

Matrix: Water

Analysis Batch: 60257

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.0391	U	10.0	9.973		mg/L		100	80 - 120	0	15
Nitrite as N	<0.0293	U F1	2.50	1.976	F1	mg/L		79	80 - 120	1	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-60412/1-A

Matrix: Water

Analysis Batch: 60593

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 60412

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		07/11/22 10:45	07/11/22 20:29	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/11/22 10:45	07/11/22 20:29	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/11/22 10:45	07/11/22 20:29	1
Sodium	<0.152	U	0.500	0.152 mg/L		07/11/22 10:45	07/11/22 20:29	1
SiO2	<0.471	U	1.07	0.471 mg/L		07/11/22 10:45	07/11/22 20:29	1

Lab Sample ID: LCS 860-60412/2-A

Matrix: Water

Analysis Batch: 60593

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 60412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.59		mg/L		98	85 - 115
Magnesium	25.0	24.66		mg/L		99	85 - 115
Potassium	10.0	9.984		mg/L		100	85 - 115
Sodium	25.0	24.92		mg/L		100	85 - 115
SiO2	21.4	21.83		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-60412/3-A

Matrix: Water

Analysis Batch: 60593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 60412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.54		mg/L		98	85 - 115	0	20
Magnesium	25.0	24.64		mg/L		99	85 - 115	0	20
Potassium	10.0	10.03		mg/L		100	85 - 115	0	20
Sodium	25.0	24.93		mg/L		100	85 - 115	0	20
SiO2	21.4	21.79		mg/L		102	85 - 115	0	20

Lab Sample ID: LLCS 860-60412/4-A

Matrix: Water

Analysis Batch: 60593

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 60412

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2326		mg/L		116	50 - 150
Magnesium	0.200	0.2208		mg/L		110	50 - 150
Potassium	0.500	0.5912		mg/L		118	50 - 150
Sodium	0.500	0.5404		mg/L		108	50 - 150
SiO2	1.07	1.154		mg/L		108	50 - 150

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

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

Lab Sample ID: 880-16684-1 MS

Matrix: Water

Analysis Batch: 60593

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 60412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	248	E	25.0	277.3	E 4	mg/L		115	70 - 130
Magnesium	50.6		25.0	76.61		mg/L		104	70 - 130
Potassium	3.88		10.0	14.58		mg/L		107	70 - 130
Sodium	77.0		25.0	103.9		mg/L		108	70 - 130
SiO2	65.7		21.4	89.32		mg/L		110	70 - 130

Lab Sample ID: 880-16684-1 MSD

Matrix: Water

Analysis Batch: 60593

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 60412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	248	E	25.0	276.9	E 4	mg/L		114	70 - 130	0	20
Magnesium	50.6		25.0	76.50		mg/L		104	70 - 130	0	20
Potassium	3.88		10.0	14.61		mg/L		107	70 - 130	0	20
Sodium	77.0		25.0	103.6		mg/L		106	70 - 130	0	20
SiO2	65.7		21.4	89.59		mg/L		112	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-60498/4

Matrix: Water

Analysis Batch: 60498

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			07/11/22 12:19	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 12:19	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 12:19	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/11/22 12:19	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/11/22 12:19	1

Lab Sample ID: LCS 860-60498/5

Matrix: Water

Analysis Batch: 60498

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	249.3		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-60498/6

Matrix: Water

Analysis Batch: 60498

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	249.7		mg/L		100	85 - 115	0	20

Lab Sample ID: 880-16684-1 DU

Matrix: Water

Analysis Batch: 60498

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	592		609.6		mg/L		3	20

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QC Sample Results

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

Job ID: 880-16684-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 880-16684-1 DU

Matrix: Water

Analysis Batch: 60498

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO ₃	592		609.6		mg/L		3	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 860-60353/1

Matrix: Water

Analysis Batch: 60353

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			07/10/22 15:12	1

Lab Sample ID: LCS 860-60353/2

Matrix: Water

Analysis Batch: 60353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Total Dissolved Solids	1000	977.0		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-60353/3

Matrix: Water

Analysis Batch: 60353

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
Total Dissolved Solids	1000	962.0		mg/L		96	80 - 120	2	10

Lab Sample ID: LLCS 860-60353/4

Matrix: Water

Analysis Batch: 60353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-16684-1 DU

Matrix: Water

Analysis Batch: 60454

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.4	HF	6.4		SU		0.2	20
Temperature	20.3	HF	20.0		Degrees C		1	20

Eurofins Midland

QC Association Summary

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

Job ID: 880-16684-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 60170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	8260C	
MB 860-60170/31	Method Blank	Total/NA	Water	8260C	
LCS 860-60170/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-60170/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 60324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1 - RA	Levey Well	Total/NA	Water	8260C	
MB 860-60324/9	Method Blank	Total/NA	Water	8260C	
LCS 860-60324/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-60324/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 60256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	300.0	
MB 860-60256/3	Method Blank	Total/NA	Water	300.0	
LCS 860-60256/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60256/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60256/5	Lab Control Sample	Total/NA	Water	300.0	
880-16684-1 MS	Levey Well	Total/NA	Water	300.0	
880-16684-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 60257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	300.0	
MB 860-60257/3	Method Blank	Total/NA	Water	300.0	
LCS 860-60257/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60257/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60257/4	Lab Control Sample	Total/NA	Water	300.0	
880-16684-1 MS	Levey Well	Total/NA	Water	300.0	
880-16684-1 MSD	Levey Well	Total/NA	Water	300.0	

Metals

Prep Batch: 60412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-60412/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-60412/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-60412/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-60412/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-16684-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-16684-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 60593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	60412
880-16684-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	60412
MB 860-60412/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	60412
LCS 860-60412/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	60412

Eurofins Midland

QC Association Summary

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

Job ID: 880-16684-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 60593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-60412/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	60412
LLCS 860-60412/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	60412
880-16684-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	60412
880-16684-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	60412

General Chemistry

Analysis Batch: 60353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-60353/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-60353/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-60353/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-60353/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 60452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 60454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 60498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-60498/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-60498/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-60498/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-60498/30	Lab Control Sample	Total/NA	Water	SM 2320B	
880-16684-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 60784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16684-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-16684-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16684-1

Date Collected: 07/07/22 11:00

Matrix: Water

Date Received: 07/07/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	60170	07/08/22 17:51	NA	XEN STF
Total/NA	Analysis	8260C	RA	1	60324	07/09/22 15:30	NA	XEN STF
Total/NA	Analysis	300.0		1	60256	07/08/22 20:31	ANP	XEN STF
Total/NA	Analysis	300.0		1	60257	07/08/22 20:31	ANP	XEN STF
Total Recoverable	Prep	200.7			60412	07/11/22 10:45	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	60593	07/11/22 20:47	DP	XEN STF
Total Recoverable	Prep	200.7			60412	07/11/22 10:45	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	60593	07/11/22 21:20	DP	XEN STF
Total/NA	Analysis	SM 1030E		1	60784	07/13/22 14:00	DP	XEN STF
Total/NA	Analysis	SM 2320B		1	60498	07/11/22 12:56	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	60353	07/10/22 15:12	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	60452	07/11/22 12:50	ALL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-16684-1
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	T104704215-22-46	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: 880-16684-1
SDG: Hobbs NM

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

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

Laboratory References:
XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-16684-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16684-1	Levey Well	Water	07/07/22 11:00	07/07/22 16:23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 12
- 13
- 14



Chain of Custody

Work Order No.

1987

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
757-392-7550 Phoenix AZ (480) 355-0000 Atlanta GA (770) 440-8900 Tampa FL (741)

Mailing 1A (702-704-3440) EL Paso 1A (913)363-3445 Lubbock 1A (806)/94-1296

1000

•

Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name.	
Address.	705 W Wadley #210	Address	
City, State ZIP	Midland TX	City, State ZIP	
Phone	432-230-3344	Email	bjennings@ensolum.com

3-93-00-2000) www.xenico.com Page of

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 _____

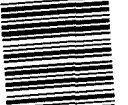
Project Name	Leyey Well	Hobbs NM	Turn Around
Project Number	03B1417001		Routine ☐
P O Number	03B1417001		Rush <u>2 day</u>
Sampler's Name			Due Date

[illegible]

SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice	Yes	No
Temperature (°C)		147.2			Thermometer ID		
Received Intact:		Yes	No				
Cooler Custody Seals		Yes	No		Correction Factor		
Sample Custody Seals:		Yes	No		Total Containers		

[illegible]

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions	Cations	pH	Alkalinity	TDS
Levey Well	GL	7-7-22	1100	—	7	X	X	X	X	X	X
CUSTODY SEAL Date <u>7-7-22</u> Signature <u>[Signature]</u> WV 7-7-22											

Sample Comments	880-1-6684 Chain of Custody	Thermo SCIENTIFIC
		

CUSTODY SEAL
Date 7-7-22
Signature [Signature]

Thermo
SCIENTIFIC

50006

Total 200.7 / 6010 200.8 / 6020:

[illegible]

1631 / 2451 / 7A70 / 7A71 Ha

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	7/7/02	2		
3		10:03	4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16684-1

SDG Number: Hobbs NM

Login Number: 16684

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: 880-16684-1

SDG Number: Hobbs NM

Login Number: 16684

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 07/08/22 12:20 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16685-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

7/15/2022 4:08:09 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through



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

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

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

Laboratory Job ID: 880-16685-1

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Definitions/Glossary

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

Job ID: 880-16685-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
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: 880-16685-1

Job ID: 880-16685-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-16685-1****Receipt**

The samples were received on 7/7/2022 4:23 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 1.2°C

GC/MS VOA

Method 8260C: The method blank for preparation batch MB 860-60170 contained 2-Butanone and 1,4-Dichlorobenzene 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 8260C: The matrix spike(MS) recoveries for the following sample associated with analytical batch 860-60324 were outside control limits: (820-4872-B-3 MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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 860-60256 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-60257 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16685-1

Date Collected: 07/07/22 12:00

Matrix: Water

Date Received: 07/07/22 16:23

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 16:36	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/08/22 16:36	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/08/22 16:36	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/08/22 16:36	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/08/22 16:36	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/08/22 16:36	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/08/22 16:36	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/08/22 16:36	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/08/22 16:36	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/08/22 16:36	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/08/22 16:36	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/08/22 16:36	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 16:36	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/08/22 16:36	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/08/22 16:36	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/08/22 16:36	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/08/22 16:36	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/08/22 16:36	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/08/22 16:36	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/08/22 16:36	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/08/22 16:36	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/08/22 16:36	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/08/22 16:36	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/08/22 16:36	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/08/22 16:36	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/08/22 16:36	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/08/22 16:36	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/08/22 16:36	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/08/22 16:36	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/08/22 16:36	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/08/22 16:36	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 16:36	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/08/22 16:36	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/08/22 16:36	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/08/22 16:36	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/08/22 16:36	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/08/22 16:36	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/08/22 16:36	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/08/22 16:36	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/08/22 16:36	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/08/22 16:36	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/08/22 16:36	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/08/22 16:36	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/08/22 16:36	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/08/22 16:36	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/08/22 16:36	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 16:36	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 16:36	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/08/22 16:36	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16685-1

Date Collected: 07/07/22 12:00

Matrix: Water

Date Received: 07/07/22 16:23

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/08/22 16:36	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 16:36	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 16:36	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/08/22 16:36	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/08/22 16:36	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/08/22 16:36	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/08/22 16:36	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/08/22 16:36	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/08/22 16:36	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/08/22 16:36	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/08/22 16:36	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/08/22 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		07/08/22 16:36	1
Dibromofluoromethane (Surr)	101		75 - 131		07/08/22 16:36	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		07/08/22 16:36	1
Toluene-d8 (Surr)	101		80 - 117		07/08/22 16:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.947	U	4.79	0.947 mg/L			07/11/22 11:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	4.79	0.947 mg/L		07/08/22 14:03	07/08/22 19:49	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947 mg/L		07/08/22 14:03	07/08/22 19:49	1
Oil Range Organics (Over C28-C36)	<0.914	U	4.79	0.914 mg/L		07/08/22 14:03	07/08/22 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135	07/08/22 14:03	07/08/22 19:49	1
o-Terphenyl	104		70 - 135	07/08/22 14:03	07/08/22 19:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		0.500	0.200 mg/L			07/08/22 21:11	1
Nitrate as N	0.0413	J	0.100	0.0391 mg/L			07/08/22 21:11	1
Fluoride	0.660		0.500	0.100 mg/L			07/08/22 21:11	1
Nitrite as N	0.0458	J	0.100	0.0293 mg/L			07/08/22 21:11	1
Sulfate	47.7		0.500	0.109 mg/L			07/08/22 21:11	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	238		4.00	4.00 mg/L			07/11/22 14:26	1
Bicarbonate Alkalinity as CaCO3	238		4.00	4.00 mg/L			07/11/22 14:26	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 14:26	1
Carbon dioxide	231			mg/L			07/14/22 15:47	1
Carbon Dioxide, Free	22.2			mg/L			07/14/22 15:47	1
pH	7.4	HF		SU			07/11/22 12:50	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16685-1

Date Collected: 07/07/22 12:00

Matrix: Water

Date Received: 07/07/22 16:23

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	23.1	HF		Celsius			07/11/22 12:50	1
Sulfide	0.600	J	5.00	0.495 mg/L			07/13/22 21:00	1

Client Sample ID: MW-2

Lab Sample ID: 880-16685-2

Date Collected: 07/07/22 12:55

Matrix: Water

Date Received: 07/07/22 16:23

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0222		0.00100	0.000214 mg/L			07/08/22 17:10	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/08/22 17:10	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/08/22 17:10	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/08/22 17:10	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/08/22 17:10	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/08/22 17:10	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/08/22 17:10	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/08/22 17:10	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/08/22 17:10	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/08/22 17:10	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/08/22 17:10	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 17:10	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/08/22 17:10	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/08/22 17:10	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/08/22 17:10	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/08/22 17:10	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/08/22 17:10	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/08/22 17:10	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/08/22 17:10	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/08/22 17:10	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/08/22 17:10	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/08/22 17:10	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/08/22 17:10	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/08/22 17:10	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/08/22 17:10	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/08/22 17:10	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/08/22 17:10	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/08/22 17:10	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/08/22 17:10	1
Ethylbenzene	0.0243		0.00100	0.000515 mg/L			07/08/22 17:10	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 17:10	1
Isopropylbenzene	0.00988		0.00100	0.000161 mg/L			07/08/22 17:10	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/08/22 17:10	1
m,p-Xylenes	0.116		0.0100	0.000330 mg/L			07/08/22 17:10	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/08/22 17:10	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/08/22 17:10	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/08/22 17:10	1
N-Propylbenzene	0.00316		0.00100	0.000179 mg/L			07/08/22 17:10	1
o-Xylene	0.00950		0.00100	0.000192 mg/L			07/08/22 17:10	1
p-Cymene (p-Isopropyltoluene)	0.000856	J	0.00100	0.000233 mg/L			07/08/22 17:10	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/08/22 17:10	1

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Client Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-16685-2

Date Collected: 07/07/22 12:55

Matrix: Water

Date Received: 07/07/22 16:23

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/08/22 17:10	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/08/22 17:10	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/08/22 17:10	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/08/22 17:10	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 17:10	1
Toluene	0.00257		0.00100	0.000500 mg/L			07/08/22 17:10	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/08/22 17:10	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/08/22 17:10	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 17:10	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 17:10	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/08/22 17:10	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/08/22 17:10	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/08/22 17:10	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/08/22 17:10	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/08/22 17:10	1
1,2,4-Trimethylbenzene	0.0323		0.00100	0.000252 mg/L			07/08/22 17:10	1
1,3,5-Trimethylbenzene	0.00830		0.00100	0.000279 mg/L			07/08/22 17:10	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/08/22 17:10	1
Xylenes, Total	0.126		0.0100	0.000330 mg/L			07/08/22 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		07/08/22 17:10	1
4-Bromofluorobenzene (Surr)	104		74 - 124		07/08/22 17:30	5
Dibromofluoromethane (Surr)	99		75 - 131		07/08/22 17:10	1
Dibromofluoromethane (Surr)	100		75 - 131		07/08/22 17:30	5
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/08/22 17:10	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/08/22 17:30	5
Toluene-d8 (Surr)	102		80 - 117		07/08/22 17:10	1
Toluene-d8 (Surr)	101		80 - 117		07/08/22 17:30	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	0.00808	J	0.0500	0.00270 mg/L			07/09/22 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		07/09/22 15:09	1
Dibromofluoromethane (Surr)	99		75 - 131		07/09/22 15:09	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		07/09/22 15:09	1
Toluene-d8 (Surr)	100		80 - 117		07/09/22 15:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	0.912	J	4.59	0.906 mg/L			07/11/22 11:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.912	J	4.59	0.906 mg/L		07/08/22 14:03	07/08/22 20:28	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906 mg/L		07/08/22 14:03	07/08/22 20:28	1
Oil Range Organics (Over C28-C36)	<0.875	U	4.59	0.875 mg/L		07/08/22 14:03	07/08/22 20:28	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-16685-1

Client Sample ID: MW-2
Date Collected: 07/07/22 12:55
Date Received: 07/07/22 16:23

Lab Sample ID: 880-16685-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 135	07/08/22 14:03	07/08/22 20:28	1
o-Terphenyl	80		70 - 135	07/08/22 14:03	07/08/22 20:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		0.500	0.200 mg/L			07/08/22 21:25	1
Nitrate as N	0.399		0.100	0.0391 mg/L			07/08/22 21:25	1
Fluoride	0.141	J	0.500	0.100 mg/L			07/08/22 21:25	1
Nitrite as N	0.440		0.100	0.0293 mg/L			07/08/22 21:25	1
Sulfate	98.3		0.500	0.109 mg/L			07/08/22 21:25	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1300		4.00	4.00 mg/L			07/11/22 14:43	1
Bicarbonate Alkalinity as CaCO3	1300		4.00	4.00 mg/L			07/11/22 14:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 14:43	1
Carbon dioxide	2340			mg/L			07/14/22 15:50	1
Carbon Dioxide, Free	1190			mg/L			07/14/22 15:50	1
pH	6.4	HF		SU			07/11/22 12:50	1
Temperature	23.0	HF		Celsius			07/11/22 12:50	1
Sulfide	<0.495	U	5.00	0.495 mg/L			07/13/22 21:00	1

Surrogate Summary

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
820-4872-B-3 MS	Matrix Spike	101	98	99	100
880-16634-C-1 MS	Matrix Spike	102	98	97	99
880-16685-1	MW-1	101	101	108	101
880-16685-2	MW-2	100	99	105	102
880-16685-2	MW-2	104	100	105	101
880-16685-2 - RA	MW-2	98	99	106	100
LCS 860-60170/3	Lab Control Sample	100	101	100	99
LCS 860-60324/3	Lab Control Sample	102	98	98	99
LCSD 860-60170/4	Lab Control Sample Dup	102	99	96	100
LCSD 860-60324/4	Lab Control Sample Dup	101	99	99	100
MB 860-60170/31	Method Blank	102	101	103	101
MB 860-60324/9	Method Blank	100	102	105	101
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)
880-16685-1	MW-1	94	104
880-16685-1 MS	MW-1	116	98
880-16685-2	MW-2	70	80
LCS 860-60268/2-A	Lab Control Sample	114	97
LCSD 860-60268/3-A	Lab Control Sample Dup	119	102
MB 860-60268/1-A	Method Blank	95	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-60170/31

Matrix: Water

Analysis Batch: 60170

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 10:48	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/08/22 10:48	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/08/22 10:48	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/08/22 10:48	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/08/22 10:48	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/08/22 10:48	1
2-Butanone	0.003761	J	0.0500	0.00270 mg/L			07/08/22 10:48	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/08/22 10:48	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/08/22 10:48	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/08/22 10:48	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/08/22 10:48	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/08/22 10:48	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/08/22 10:48	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/08/22 10:48	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/08/22 10:48	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/08/22 10:48	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/08/22 10:48	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/08/22 10:48	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/08/22 10:48	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/08/22 10:48	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/08/22 10:48	1
1,4-Dichlorobenzene	0.0002430	J	0.00100	0.000199 mg/L			07/08/22 10:48	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/08/22 10:48	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/08/22 10:48	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/08/22 10:48	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/08/22 10:48	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/08/22 10:48	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/08/22 10:48	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/08/22 10:48	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/08/22 10:48	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/08/22 10:48	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/08/22 10:48	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/08/22 10:48	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/08/22 10:48	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/08/22 10:48	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/08/22 10:48	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/08/22 10:48	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/08/22 10:48	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/08/22 10:48	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/08/22 10:48	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/08/22 10:48	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/08/22 10:48	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/08/22 10:48	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/08/22 10:48	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/08/22 10:48	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/08/22 10:48	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 10:48	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/08/22 10:48	1

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-60170/31

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60170

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		07/08/22 10:48	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752	mg/L		07/08/22 10:48	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		07/08/22 10:48	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200	mg/L		07/08/22 10:48	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504	mg/L		07/08/22 10:48	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228	mg/L		07/08/22 10:48	1
Trichloroethene	<0.000424	U	0.00500	0.000424	mg/L		07/08/22 10:48	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245	mg/L		07/08/22 10:48	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283	mg/L		07/08/22 10:48	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252	mg/L		07/08/22 10:48	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279	mg/L		07/08/22 10:48	1
Vinyl chloride	<0.000234	U	0.00200	0.000234	mg/L		07/08/22 10:48	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L		07/08/22 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/08/22 10:48	1
Dibromofluoromethane (Surr)	101		75 - 131		07/08/22 10:48	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		07/08/22 10:48	1
Toluene-d8 (Surr)	101		80 - 117		07/08/22 10:48	1

Lab Sample ID: LCS 860-60170/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04991		mg/L		100	66 - 142
Bromobenzene	0.0500	0.05110		mg/L		102	75 - 125
Bromochloromethane	0.0500	0.05055		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.05152		mg/L		103	75 - 125
Bromoform	0.0500	0.05280		mg/L		106	75 - 125
Bromomethane	0.0500	0.04394		mg/L		88	60 - 140
2-Butanone	0.250	0.2465		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.04959		mg/L		99	62 - 125
Chlorobenzene	0.0500	0.05012		mg/L		100	60 - 133
Chloroethane	0.0500	0.04856		mg/L		97	60 - 140
Chloroform	0.0500	0.05120		mg/L		102	70 - 130
Chloromethane	0.0500	0.04755		mg/L		95	60 - 140
2-Chlorotoluene	0.0500	0.05123		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05213		mg/L		104	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05164		mg/L		103	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05273		mg/L		105	74 - 125
Dibromochloromethane	0.0500	0.05144		mg/L		103	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05311		mg/L		106	59 - 125
1,2-Dibromoethane	0.0500	0.05150		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05300		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05216		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.05169		mg/L		103	75 - 125
Dichlorodifluoromethane	0.0500	0.05160		mg/L		103	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-60170/3

Matrix: Water

Analysis Batch: 60170

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	0.05051		mg/L		101	72 - 125
1,2-Dichloroethane	0.0500	0.04987		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.04766		mg/L		95	59 - 172
1,2-Dichloropropane	0.0500	0.05058		mg/L		101	74 - 125
1,3-Dichloropropane	0.0500	0.05088		mg/L		102	75 - 125
2,2-Dichloropropane	0.0500	0.05367		mg/L		107	75 - 125
1,1-Dichloropropene	0.0500	0.04946		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.05096		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05297		mg/L		106	75 - 125
Isopropylbenzene	0.0500	0.05309		mg/L		106	75 - 125
Methylene Chloride	0.0500	0.04902		mg/L		98	75 - 125
m,p-Xylenes	0.0500	0.05203		mg/L		104	75 - 125
MTBE	0.0500	0.05255		mg/L		105	65 - 135
Naphthalene	0.0500	0.06080		mg/L		122	70 - 130
n-Butylbenzene	0.0500	0.05386		mg/L		108	75 - 125
N-Propylbenzene	0.0500	0.05176		mg/L		104	75 - 125
o-Xylene	0.0500	0.05225		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05465		mg/L		109	75 - 125
sec-Butylbenzene	0.0500	0.05389		mg/L		108	75 - 125
Styrene	0.0500	0.05285		mg/L		106	75 - 125
tert-Butylbenzene	0.0500	0.05326		mg/L		107	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05236		mg/L		105	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05275		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.04933		mg/L		99	71 - 125
Toluene	0.0500	0.04917		mg/L		98	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04714		mg/L		94	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05127		mg/L		103	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05901		mg/L		118	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05622		mg/L		112	75 - 135
1,1,1-Trichloroethane	0.0500	0.05146		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.05081		mg/L		102	75 - 127
Trichloroethene	0.0500	0.04984		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.05142		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.05226		mg/L		105	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05335		mg/L		107	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05241		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.04923		mg/L		98	60 - 140

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

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-60170/4

Matrix: Water

Analysis Batch: 60170

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	0.04882		mg/L		98	66 - 142	2	25
Bromobenzene	0.0500	0.04989		mg/L		100	75 - 125	2	25
Bromochloromethane	0.0500	0.04933		mg/L		99	60 - 140	2	25
Bromodichloromethane	0.0500	0.04954		mg/L		99	75 - 125	4	25
Bromoform	0.0500	0.04984		mg/L		100	75 - 125	6	25
Bromomethane	0.0500	0.04195		mg/L		84	60 - 140	5	25
2-Butanone	0.250	0.2203		mg/L		88	60 - 140	11	25
Carbon tetrachloride	0.0500	0.05009		mg/L		100	62 - 125	1	25
Chlorobenzene	0.0500	0.04970		mg/L		99	60 - 133	1	25
Chloroethane	0.0500	0.04793		mg/L		96	60 - 140	1	25
Chloroform	0.0500	0.04991		mg/L		100	70 - 130	3	25
Chloromethane	0.0500	0.04486		mg/L		90	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05231		mg/L		105	73 - 125	2	25
4-Chlorotoluene	0.0500	0.05263		mg/L		105	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05030		mg/L		101	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05065		mg/L		101	74 - 125	4	25
Dibromochloromethane	0.0500	0.05005		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05015		mg/L		100	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.04960		mg/L		99	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05170		mg/L		103	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05268		mg/L		105	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05126		mg/L		103	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05215		mg/L		104	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.04885		mg/L		98	72 - 125	3	25
1,2-Dichloroethane	0.0500	0.04846		mg/L		97	68 - 127	3	25
1,1-Dichloroethene	0.0500	0.04742		mg/L		95	59 - 172	1	25
1,2-Dichloropropane	0.0500	0.04886		mg/L		98	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04898		mg/L		98	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.05360		mg/L		107	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.04953		mg/L		99	75 - 125	0	25
Ethylbenzene	0.0500	0.05108		mg/L		102	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05765		mg/L		115	75 - 125	8	25
Isopropylbenzene	0.0500	0.05369		mg/L		107	75 - 125	1	25
Methylene Chloride	0.0500	0.04744		mg/L		95	75 - 125	3	25
m,p-Xylenes	0.0500	0.05192		mg/L		104	75 - 125	0	25
MTBE	0.0500	0.04903		mg/L		98	65 - 135	7	25
Naphthalene	0.0500	0.05637		mg/L		113	70 - 130	8	25
n-Butylbenzene	0.0500	0.05738		mg/L		115	75 - 125	6	25
N-Propylbenzene	0.0500	0.05427		mg/L		109	75 - 125	5	25
o-Xylene	0.0500	0.05151		mg/L		103	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05736		mg/L		115	75 - 125	5	25
sec-Butylbenzene	0.0500	0.05685		mg/L		114	75 - 125	5	25
Styrene	0.0500	0.05194		mg/L		104	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05582		mg/L		112	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05094		mg/L		102	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05060		mg/L		101	74 - 125	4	25
Tetrachloroethene	0.0500	0.05036		mg/L		101	71 - 125	2	25
Toluene	0.0500	0.04917		mg/L		98	59 - 139	0	25

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-60170/4

Matrix: Water

Analysis Batch: 60170

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	0.04601		mg/L		92	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04939		mg/L		99	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05617		mg/L		112	75 - 137	5	25
1,2,4-Trichlorobenzene	0.0500	0.05588		mg/L		112	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.05155		mg/L		103	75 - 125	0	25
1,1,2-Trichloroethane	0.0500	0.04963		mg/L		99	75 - 127	2	25
Trichloroethene	0.0500	0.04994		mg/L		100	62 - 137	0	25
Trichlorofluoromethane	0.0500	0.05065		mg/L		101	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.05038		mg/L		101	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.05473		mg/L		109	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05445		mg/L		109	60 - 140	4	25
Vinyl chloride	0.0500	0.04861		mg/L		97	60 - 140	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	100		80 - 117

Lab Sample ID: MB 860-60324/9

Matrix: Water

Analysis Batch: 60324

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L		07/09/22 11:24	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		07/09/22 11:24	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		07/09/22 11:24	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		07/09/22 11:24	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		07/09/22 11:24	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		07/09/22 11:24	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		07/09/22 11:24	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		07/09/22 11:24	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		07/09/22 11:24	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		07/09/22 11:24	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		07/09/22 11:24	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		07/09/22 11:24	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		07/09/22 11:24	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		07/09/22 11:24	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		07/09/22 11:24	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		07/09/22 11:24	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		07/09/22 11:24	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		07/09/22 11:24	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		07/09/22 11:24	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		07/09/22 11:24	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		07/09/22 11:24	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		07/09/22 11:24	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		07/09/22 11:24	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		07/09/22 11:24	1

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-60324/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60324

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/09/22 11:24	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/09/22 11:24	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/09/22 11:24	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/09/22 11:24	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/09/22 11:24	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/09/22 11:24	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/09/22 11:24	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/09/22 11:24	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/09/22 11:24	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/09/22 11:24	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/09/22 11:24	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/09/22 11:24	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/09/22 11:24	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/09/22 11:24	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/09/22 11:24	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/09/22 11:24	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/09/22 11:24	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/09/22 11:24	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/09/22 11:24	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/09/22 11:24	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/09/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/09/22 11:24	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/09/22 11:24	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/09/22 11:24	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/09/22 11:24	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/09/22 11:24	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/09/22 11:24	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/09/22 11:24	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/09/22 11:24	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/09/22 11:24	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/09/22 11:24	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/09/22 11:24	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/09/22 11:24	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/09/22 11:24	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/09/22 11:24	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/09/22 11:24	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/09/22 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		07/09/22 11:24	1
Dibromofluoromethane (Surr)	102		75 - 131		07/09/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/09/22 11:24	1
Toluene-d8 (Surr)	101		80 - 117		07/09/22 11:24	1

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-60324/3

Matrix: Water

Analysis Batch: 60324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.04950		mg/L		99	66 - 142
Bromobenzene	0.0500	0.05020		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05015		mg/L		100	60 - 140
Bromodichloromethane	0.0500	0.04981		mg/L		100	75 - 125
Bromoform	0.0500	0.05123		mg/L		102	75 - 125
Bromomethane	0.0500	0.03998		mg/L		80	60 - 140
2-Butanone	0.250	0.2449		mg/L		98	60 - 140
Carbon tetrachloride	0.0500	0.04874		mg/L		97	62 - 125
Chlorobenzene	0.0500	0.04954		mg/L		99	60 - 133
Chloroethane	0.0500	0.05075		mg/L		101	60 - 140
Chloroform	0.0500	0.04955		mg/L		99	70 - 130
Chloromethane	0.0500	0.04369		mg/L		87	60 - 140
2-Chlorotoluene	0.0500	0.05077		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05171		mg/L		103	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05029		mg/L		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05198		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05044		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05313		mg/L		106	59 - 125
1,2-Dibromoethane	0.0500	0.05179		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05161		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05095		mg/L		102	75 - 125
1,4-Dichlorobenzene	0.0500	0.05029		mg/L		101	75 - 125
Dichlorodifluoromethane	0.0500	0.04714		mg/L		94	70 - 130
1,1-Dichloroethane	0.0500	0.04960		mg/L		99	72 - 125
1,2-Dichloroethane	0.0500	0.04992		mg/L		100	68 - 127
1,1-Dichloroethene	0.0500	0.04751		mg/L		95	59 - 172
1,2-Dichloropropane	0.0500	0.04955		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.05038		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05175		mg/L		103	75 - 125
1,1-Dichloropropene	0.0500	0.04923		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.05092		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05058		mg/L		101	75 - 125
Isopropylbenzene	0.0500	0.05124		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.04914		mg/L		98	75 - 125
m,p-Xylenes	0.0500	0.05105		mg/L		102	75 - 125
MTBE	0.0500	0.05096		mg/L		102	65 - 135
Naphthalene	0.0500	0.05737		mg/L		115	70 - 130
n-Butylbenzene	0.0500	0.05254		mg/L		105	75 - 125
N-Propylbenzene	0.0500	0.05133		mg/L		103	75 - 125
o-Xylene	0.0500	0.05148		mg/L		103	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05271		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05182		mg/L		104	75 - 125
Styrene	0.0500	0.05175		mg/L		103	75 - 125
tert-Butylbenzene	0.0500	0.05161		mg/L		103	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05020		mg/L		100	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05257		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.04966		mg/L		99	71 - 125
Toluene	0.0500	0.04954		mg/L		99	59 - 139

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-60324/3

Matrix: Water

Analysis Batch: 60324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	0.0500	0.04874		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05062		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05588		mg/L		112	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05374		mg/L		107	75 - 135
1,1,1-Trichloroethane	0.0500	0.04947		mg/L		99	75 - 125
1,1,2-Trichloroethane	0.0500	0.04984		mg/L		100	75 - 127
Trichloroethene	0.0500	0.04948		mg/L		99	62 - 137
Trichlorofluoromethane	0.0500	0.04894		mg/L		98	60 - 140
1,2,3-Trichloropropane	0.0500	0.05289		mg/L		106	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05309		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05210		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.04862		mg/L		97	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Lab Sample ID: LCSD 860-60324/4

Matrix: Water

Analysis Batch: 60324

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	0.05053		mg/L		101	66 - 142	2	25
Bromobenzene	0.0500	0.04975		mg/L		99	75 - 125	1	25
Bromochloromethane	0.0500	0.05023		mg/L		100	60 - 140	0	25
Bromodichloromethane	0.0500	0.05011		mg/L		100	75 - 125	1	25
Bromoform	0.0500	0.05041		mg/L		101	75 - 125	2	25
Bromomethane	0.0500	0.03991		mg/L		80	60 - 140	0	25
2-Butanone	0.250	0.2284		mg/L		91	60 - 140	7	25
Carbon tetrachloride	0.0500	0.05273		mg/L		105	62 - 125	8	25
Chlorobenzene	0.0500	0.05052		mg/L		101	60 - 133	2	25
Chloroethane	0.0500	0.05075		mg/L		102	60 - 140	0	25
Chloroform	0.0500	0.05073		mg/L		101	70 - 130	2	25
Chloromethane	0.0500	0.04433		mg/L		89	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05108		mg/L		102	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05192		mg/L		104	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.05144		mg/L		103	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05135		mg/L		103	74 - 125	1	25
Dibromochloromethane	0.0500	0.05030		mg/L		101	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05030		mg/L		101	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05086		mg/L		102	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05062		mg/L		101	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.05105		mg/L		102	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05016		mg/L		100	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.05280		mg/L		106	70 - 130	11	25
1,1-Dichloroethane	0.0500	0.04939		mg/L		99	72 - 125	0	25

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-60324/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60324

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	0.0500	0.04951		mg/L		99	68 - 127	1	25
1,1-Dichloroethene	0.0500	0.04997		mg/L		100	59 - 172	5	25
1,2-Dichloropropane	0.0500	0.04901		mg/L		98	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.05000		mg/L		100	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05374		mg/L		107	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.05296		mg/L		106	75 - 125	7	25
Ethylbenzene	0.0500	0.05258		mg/L		105	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05484		mg/L		110	75 - 125	8	25
Isopropylbenzene	0.0500	0.05422		mg/L		108	75 - 125	6	25
Methylene Chloride	0.0500	0.04779		mg/L		96	75 - 125	3	25
m,p-Xylenes	0.0500	0.05327		mg/L		107	75 - 125	4	25
MTBE	0.0500	0.04957		mg/L		99	65 - 135	3	25
Naphthalene	0.0500	0.05658		mg/L		113	70 - 130	1	25
n-Butylbenzene	0.0500	0.05586		mg/L		112	75 - 125	6	25
N-Propylbenzene	0.0500	0.05341		mg/L		107	75 - 125	4	25
o-Xylene	0.0500	0.05260		mg/L		105	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05605		mg/L		112	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05539		mg/L		111	75 - 125	7	25
Styrene	0.0500	0.05212		mg/L		104	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05399		mg/L		108	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05027		mg/L		101	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04995		mg/L		100	74 - 125	5	25
Tetrachloroethene	0.0500	0.05349		mg/L		107	71 - 125	7	25
Toluene	0.0500	0.05065		mg/L		101	59 - 139	2	25
trans-1,2-Dichloroethene	0.0500	0.04949		mg/L		99	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05073		mg/L		101	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05579		mg/L		112	75 - 137	0	25
1,2,4-Trichlorobenzene	0.0500	0.05405		mg/L		108	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.05185		mg/L		104	75 - 125	5	25
1,1,2-Trichloroethane	0.0500	0.04881		mg/L		98	75 - 127	2	25
Trichloroethene	0.0500	0.05240		mg/L		105	62 - 137	6	25
Trichlorofluoromethane	0.0500	0.05200		mg/L		104	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04992		mg/L		100	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05366		mg/L		107	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05341		mg/L		107	60 - 140	2	25
Vinyl chloride	0.0500	0.05154		mg/L		103	60 - 140	6	25

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

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QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-60268/1-A

Matrix: Water

Analysis Batch: 60227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60268

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L	07/08/22 14:01	07/08/22 18:10	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L	07/08/22 14:01	07/08/22 18:10	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L	07/08/22 14:01	07/08/22 18:10	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
1-Chlorooctane	95		70 - 135	07/08/22 14:01	07/08/22 18:10	1		
o-Terphenyl	107		70 - 135	07/08/22 14:01	07/08/22 18:10	1		

Lab Sample ID: LCS 860-60268/2-A

Matrix: Water

Analysis Batch: 60227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60268

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			99.8	110.6		mg/L		111		70 - 135	
Diesel Range Organics (Over C10-C28)			100	99.74		mg/L		100		70 - 135	
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	114		70 - 135								
o-Terphenyl	97		70 - 135								

Lab Sample ID: LCSD 860-60268/3-A

Matrix: Water

Analysis Batch: 60227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60268

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			99.8	115.1		mg/L		115	70 - 135	4	35
Diesel Range Organics (Over C10-C28)			100	102.7		mg/L		103	70 - 135	3	35
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	119		70 - 135								
o-Terphenyl	102		70 - 135								

Lab Sample ID: 880-16685-1 MS

Matrix: Water

Analysis Batch: 60227

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 60268

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	95.4	114.4		mg/L		120	70 - 135
Diesel Range Organics (Over C10-C28)	<0.947	U	95.7	99.58		mg/L		104	70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: 880-16685-1 MS

Matrix: Water

Analysis Batch: 60227

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 60268

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 135
o-Terphenyl	98		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-60256/3

Matrix: Water

Analysis Batch: 60256

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.200	U	0.500	0.200 mg/L			07/08/22 14:35	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			07/08/22 14:35	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			07/08/22 14:35	1	

Lab Sample ID: LCS 860-60256/6

Matrix: Water

Analysis Batch: 60256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS				%Rec		
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	10.0	10.28		mg/L		103	90 - 110		
Fluoride	10.0	10.07		mg/L		101	90 - 110		
Sulfate	10.0	9.986		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-60256/7

Matrix: Water

Analysis Batch: 60256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD				%Rec		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	10.0	10.25		mg/L		103	90 - 110	0	20
Fluoride	10.0	10.09		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.987		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-60256/5

Matrix: Water

Analysis Batch: 60256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LLCS	LLCS				%Rec		
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	0.500	0.5211		mg/L		104	50 - 150		
Fluoride	0.500	0.4291	J	mg/L		86	50 - 150		
Sulfate	0.500	0.5182		mg/L		104	50 - 150		

Lab Sample ID: MB 860-60257/3

Matrix: Water

Analysis Batch: 60257

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/08/22 14:35	1	
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/08/22 14:35	1	

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-60257/6

Matrix: Water

Analysis Batch: 60257

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	9.931		mg/L		99	80 - 120		
Nitrite as N	5.00	4.941		mg/L		99	80 - 120		

Lab Sample ID: LCSD 860-60257/7

Matrix: Water

Analysis Batch: 60257

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	9.935		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	4.976		mg/L		100	80 - 120	1	20

Lab Sample ID: LLCS 860-60257/4

Matrix: Water

Analysis Batch: 60257

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	0.09741	J	mg/L		97	50 - 150		
Nitrite as N	0.100	0.08941	J	mg/L		89	50 - 150		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-60498/4

Matrix: Water

Analysis Batch: 60498

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			07/11/22 12:19	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 12:19	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/11/22 12:19	1

Lab Sample ID: LCS 860-60498/5

Matrix: Water

Analysis Batch: 60498

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity	250	249.3		mg/L		100	85 - 115		

Lab Sample ID: LCSD 860-60498/6

Matrix: Water

Analysis Batch: 60498

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	249.7		mg/L		100	85 - 115	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-16685-1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-61025/1										Client Sample ID: Method Blank		
Matrix: Water										Prep Type: Total/NA		
Analysis Batch: 61025												
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Sulfide	<0.495	U	5.00	0.495 mg/L			07/13/22 21:00	1				
Lab Sample ID: LCS 860-61025/2										Client Sample ID: Lab Control Sample		
Matrix: Water										Prep Type: Total/NA		
Analysis Batch: 61025												
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits					
Sulfide	50.0	46.60		mg/L		93	80 - 120					
Lab Sample ID: LCSD 860-61025/3										Client Sample ID: Lab Control Sample Dup		
Matrix: Water										Prep Type: Total/NA		
Analysis Batch: 61025												
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit			
Sulfide	50.0	46.40		mg/L		93	80 - 120	0	20			
Lab Sample ID: 880-16685-2 MS										Client Sample ID: MW-2		
Matrix: Water										Prep Type: Total/NA		
Analysis Batch: 61025												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Sulfide	<0.495	U	50.0	46.20		mg/L		92	80 - 120			
Lab Sample ID: 880-16685-2 MSD										Client Sample ID: MW-2		
Matrix: Water										Prep Type: Total/NA		
Analysis Batch: 61025												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfide	<0.495	U	50.0	46.20		mg/L		92	80 - 120	0	20	

QC Association Summary

Client: Ensolum

Job ID: 880-16685-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 60170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	8260C	
880-16685-2	MW-2	Total/NA	Water	8260C	
880-16685-2	MW-2	Total/NA	Water	8260C	
MB 860-60170/31	Method Blank	Total/NA	Water	8260C	
LCS 860-60170/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-60170/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 60324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-2 - RA	MW-2	Total/NA	Water	8260C	
MB 860-60324/9	Method Blank	Total/NA	Water	8260C	
LCS 860-60324/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-60324/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 59566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	8015 NM	
880-16685-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 60227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	8015B NM	60268
880-16685-2	MW-2	Total/NA	Water	8015B NM	60268
MB 860-60268/1-A	Method Blank	Total/NA	Water	8015B NM	60268
LCS 860-60268/2-A	Lab Control Sample	Total/NA	Water	8015B NM	60268
LCSD 860-60268/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	60268
880-16685-1 MS	MW-1	Total/NA	Water	8015B NM	60268

Prep Batch: 60268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-16685-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-60268/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-60268/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-60268/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-16685-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 60256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	300.0	
880-16685-2	MW-2	Total/NA	Water	300.0	
MB 860-60256/3	Method Blank	Total/NA	Water	300.0	
LCS 860-60256/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60256/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60256/5	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16685-1

HPLC/IC

Analysis Batch: 60257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	300.0	
880-16685-2	MW-2	Total/NA	Water	300.0	
MB 860-60257/3	Method Blank	Total/NA	Water	300.0	
LCS 860-60257/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60257/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60257/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 60452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-16685-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 60498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	SM 2320B	
880-16685-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-60498/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-60498/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-60498/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-60498/30	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 61004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-16685-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 61025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16685-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16685-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-61025/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-61025/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-61025/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-16685-2 MS	MW-2	Total/NA	Water	SM 4500 S2 F	
880-16685-2 MSD	MW-2	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16685-1

Client Sample ID: MW-1

Lab Sample ID: 880-16685-1

Date Collected: 07/07/22 12:00

Matrix: Water

Date Received: 07/07/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	60170	07/08/22 16:36	NA	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/11/22 11:49	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			60268	07/08/22 14:03	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	60227	07/08/22 19:49	T1S	XEN STF
Total/NA	Analysis	300.0		1	60256	07/08/22 21:11	ANP	XEN STF
Total/NA	Analysis	300.0		1	60257	07/08/22 21:11	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	60498	07/11/22 14:26	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	61004	07/14/22 15:47	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	60452	07/11/22 12:50	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	61025	07/13/22 21:00	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-16685-2

Date Collected: 07/07/22 12:55

Matrix: Water

Date Received: 07/07/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	60170	07/08/22 17:10	NA	XEN STF
Total/NA	Analysis	8260C		5	60170	07/08/22 17:30	NA	XEN STF
Total/NA	Analysis	8260C	RA	1	60324	07/09/22 15:09	NA	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/11/22 11:49	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			60268	07/08/22 14:03	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	60227	07/08/22 20:28	T1S	XEN STF
Total/NA	Analysis	300.0		1	60256	07/08/22 21:25	ANP	XEN STF
Total/NA	Analysis	300.0		1	60257	07/08/22 21:25	ANP	XEN STF
Total/NA	Analysis	SM 2320B		1	60498	07/11/22 14:43	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	61004	07/14/22 15:50	ANP	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	60452	07/11/22 12:50	ALL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	61025	07/13/22 21:00	YGG	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-16685-1

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	T104704215-22-46	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: 880-16685-1

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

Protocol References:

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

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

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

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

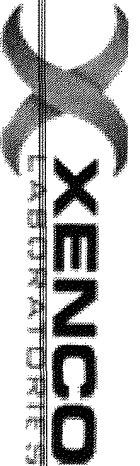
Sample Summary

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

Job ID: 880-16685-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16685-1	MW-1	Water	07/07/22 12:00	07/07/22 16:23
880-16685-2	MW-2	Water	07/07/22 12:55	07/07/22 16:23

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



Chain of Custody

Work Order No: 1101080

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)/94-1296
Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813)-392-7550
Hobbs NM (575-392-7550)

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Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	705 W Wadley #210	Address	
City, State ZIP	Midland TX	City, State ZIP	
Phone.	432-230-3344	Email	bjennings@ensolum.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other

Project Name	South Hobbs	Turn Around
Project Number		Routine ☐
P O Number	03B1417002	Rush <i>2 day</i>
Sampler's Name		Due Date <i>2/27</i>

[illegible]

SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice	Yes	No
Temperature (°C)	141.2	Thermometer ID					
Received Intact.	Yes	No					
Cooler Custody Seals	Yes	No			Correction Factor		
Sample Custody Seals	Yes	No			Total Containers		

[illegible][illegible]

880-16685 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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
1 		7/7/22	2		
3		10.23	4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16685-1

Login Number: 16685

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: 880-16685-1

Login Number: 16685

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 07/08/22 12:20 PM

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



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16903-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

7/19/2022 9:13:46 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-16903-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-16903-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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)

Definitions/Glossary

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

Job ID: 880-16903-1
SDG: Hobbs NM

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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-16903-1
SDG: Hobbs NM

Job ID: 880-16903-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-16903-1****Receipt**

The sample was received on 7/13/2022 3:09 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 2.3°C

GC/MS VOA

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-60912 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The method blank for preparation batch MB-860-60912 contained Chloromethane 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.

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 860-60934 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The method blank for analytical batch 860-60934 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-60935 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 Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-61078 and analytical batch 860-61434 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16903-1

Date Collected: 07/13/22 10:15

Matrix: Water

Date Received: 07/13/22 15:09

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00201		0.00100	0.000214 mg/L			07/14/22 19:52	1
Bromobenzene	<0.000300 U		0.00100	0.000300 mg/L			07/14/22 19:52	1
Bromochloromethane	<0.000209 U		0.00100	0.000209 mg/L			07/14/22 19:52	1
Bromodichloromethane	<0.000231 U		0.00100	0.000231 mg/L			07/14/22 19:52	1
Bromoform	<0.000630 U		0.00500	0.000630 mg/L			07/14/22 19:52	1
Bromomethane	<0.00105 U		0.00500	0.00105 mg/L			07/14/22 19:52	1
2-Butanone	0.00523 J		0.0500	0.00270 mg/L			07/14/22 19:52	1
Carbon tetrachloride	<0.000423 U		0.00500	0.000423 mg/L			07/14/22 19:52	1
Chlorobenzene	<0.000159 U		0.00100	0.000159 mg/L			07/14/22 19:52	1
Chloroethane	<0.000433 U		0.0100	0.000433 mg/L			07/14/22 19:52	1
Chloroform	<0.000259 U		0.00100	0.000259 mg/L			07/14/22 19:52	1
Chloromethane	<0.000318 U		0.0100	0.000318 mg/L			07/14/22 19:52	1
2-Chlorotoluene	<0.000214 U		0.00100	0.000214 mg/L			07/14/22 19:52	1
4-Chlorotoluene	<0.000183 U		0.00100	0.000183 mg/L			07/14/22 19:52	1
cis-1,2-Dichloroethene	<0.000174 U		0.00100	0.000174 mg/L			07/14/22 19:52	1
cis-1,3-Dichloropropene	<0.000690 U		0.00500	0.000690 mg/L			07/14/22 19:52	1
Dibromochloromethane	<0.000739 U		0.00500	0.000739 mg/L			07/14/22 19:52	1
1,2-Dibromo-3-Chloropropane	<0.000319 U		0.00500	0.000319 mg/L			07/14/22 19:52	1
1,2-Dibromoethane	<0.000337 U		0.00500	0.000337 mg/L			07/14/22 19:52	1
1,2-Dichlorobenzene	<0.000236 U		0.00100	0.000236 mg/L			07/14/22 19:52	1
1,3-Dichlorobenzene	<0.000197 U		0.00100	0.000197 mg/L			07/14/22 19:52	1
1,4-Dichlorobenzene	<0.000199 U		0.00100	0.000199 mg/L			07/14/22 19:52	1
Dichlorodifluoromethane	<0.000316 U *		0.00100	0.000316 mg/L			07/14/22 19:52	1
1,1-Dichloroethane	<0.000244 U		0.00100	0.000244 mg/L			07/14/22 19:52	1
1,2-Dichloroethane	<0.000285 U		0.00100	0.000285 mg/L			07/14/22 19:52	1
1,1-Dichloroethene	<0.000216 U		0.00100	0.000216 mg/L			07/14/22 19:52	1
1,2-Dichloropropane	<0.000396 U		0.00500	0.000396 mg/L			07/14/22 19:52	1
1,3-Dichloropropane	<0.000439 U		0.00500	0.000439 mg/L			07/14/22 19:52	1
2,2-Dichloropropane	<0.000360 U		0.00500	0.000360 mg/L			07/14/22 19:52	1
1,1-Dichloropropene	<0.000481 U		0.00500	0.000481 mg/L			07/14/22 19:52	1
Ethylbenzene	0.00698		0.00100	0.000515 mg/L			07/14/22 19:52	1
Hexachlorobutadiene	<0.00200 U		0.00500	0.00200 mg/L			07/14/22 19:52	1
Isopropylbenzene	0.00327		0.00100	0.000161 mg/L			07/14/22 19:52	1
Methylene Chloride	<0.00191 U		0.00500	0.00191 mg/L			07/14/22 19:52	1
m,p-Xylenes	0.0283		0.0100	0.000330 mg/L			07/14/22 19:52	1
MTBE	<0.000571 U		0.00500	0.000571 mg/L			07/14/22 19:52	1
Naphthalene	<0.00200 U		0.0100	0.00200 mg/L			07/14/22 19:52	1
n-Butylbenzene	0.000406 J		0.00100	0.000286 mg/L			07/14/22 19:52	1
N-Propylbenzene	0.00167		0.00100	0.000179 mg/L			07/14/22 19:52	1
o-Xylene	0.00430		0.00100	0.000192 mg/L			07/14/22 19:52	1
p-Cymene (p-Isopropyltoluene)	0.000384 J		0.00100	0.000233 mg/L			07/14/22 19:52	1
sec-Butylbenzene	<0.000199 U		0.00100	0.000199 mg/L			07/14/22 19:52	1
Styrene	<0.000623 U		0.00100	0.000623 mg/L			07/14/22 19:52	1
tert-Butylbenzene	<0.000195 U		0.00100	0.000195 mg/L			07/14/22 19:52	1
1,1,1,2-Tetrachloroethane	<0.000327 U		0.00100	0.000327 mg/L			07/14/22 19:52	1
1,1,1,2,2-Tetrachloroethane	<0.000284 U		0.00100	0.000284 mg/L			07/14/22 19:52	1
Tetrachloroethene	<0.000500 U		0.00100	0.000500 mg/L			07/14/22 19:52	1
Toluene	0.0151		0.00100	0.000500 mg/L			07/14/22 19:52	1
trans-1,2-Dichloroethene	<0.000256 U		0.00100	0.000256 mg/L			07/14/22 19:52	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-16903-1

Date Collected: 07/13/22 10:15

Matrix: Water

Date Received: 07/13/22 15:09

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/14/22 19:52	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 19:52	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 19:52	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/14/22 19:52	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/14/22 19:52	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/14/22 19:52	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/14/22 19:52	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/14/22 19:52	1
1,2,4-Trimethylbenzene	0.00669		0.00100	0.000252 mg/L			07/14/22 19:52	1
1,3,5-Trimethylbenzene	0.00223		0.00100	0.000279 mg/L			07/14/22 19:52	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/14/22 19:52	1
Xylenes, Total	0.0326		0.0100	0.000330 mg/L			07/14/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/14/22 19:52	1
Dibromofluoromethane (Surr)	100		75 - 131		07/14/22 19:52	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/14/22 19:52	1
Toluene-d8 (Surr)	104		80 - 117		07/14/22 19:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.393	J	0.500	0.0711 mg/L			07/14/22 22:50	1
Nitrate as N	0.129		0.100	0.0391 mg/L			07/14/22 22:50	1
Chloride	212	B	0.500	0.200 mg/L			07/14/22 22:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/14/22 22:50	1
Fluoride	0.663		0.500	0.100 mg/L			07/14/22 22:50	1
Sulfate	46.2		0.500	0.109 mg/L			07/14/22 22:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	245		10.0	5.76 mg/L		07/15/22 09:45	07/17/22 15:22	50
Magnesium	48.1		0.200	0.0428 mg/L		07/15/22 09:45	07/17/22 15:08	1
Potassium	3.89		0.500	0.0914 mg/L		07/15/22 09:45	07/17/22 15:08	1
Sodium	74.2		0.500	0.152 mg/L		07/15/22 09:45	07/17/22 15:08	1
SiO2	64.5		1.07	0.471 mg/L		07/15/22 09:45	07/17/22 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	5.53			%			07/19/22 09:02	1
Alkalinity	417		4.00	4.00 mg/L			07/15/22 12:08	1
Bicarbonate Alkalinity as CaCO3	417		4.00	4.00 mg/L			07/15/22 12:08	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/15/22 12:08	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/15/22 12:08	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/15/22 12:08	1
Total Dissolved Solids	1160		10.0	10.0 mg/L			07/15/22 14:50	1
pH	6.3	HF		SU			07/14/22 15:28	1
Temperature	19.4	HF		Degrees C			07/14/22 15:28	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-16903-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-29447-D-3 MS	Matrix Spike	103	101	101	100
880-16903-1	Levey Well	102	100	105	104
LCS 860-60912/3	Lab Control Sample	101	100	103	100
LCSD 860-60912/4	Lab Control Sample Dup	101	100	102	99
MB 860-60912/9	Method Blank	98	100	106	98
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: 880-16903-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-60912/9

Matrix: Water

Analysis Batch: 60912

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 17:08	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/14/22 17:08	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/14/22 17:08	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/14/22 17:08	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/14/22 17:08	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/14/22 17:08	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/14/22 17:08	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/14/22 17:08	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/14/22 17:08	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/14/22 17:08	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/14/22 17:08	1
Chloromethane	0.0004825	J	0.0100	0.000318 mg/L			07/14/22 17:08	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 17:08	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/14/22 17:08	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/14/22 17:08	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/14/22 17:08	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/14/22 17:08	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/14/22 17:08	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/14/22 17:08	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/14/22 17:08	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/14/22 17:08	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 17:08	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/14/22 17:08	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/14/22 17:08	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/14/22 17:08	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/14/22 17:08	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/14/22 17:08	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/14/22 17:08	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/14/22 17:08	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/14/22 17:08	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/14/22 17:08	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 17:08	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/14/22 17:08	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/14/22 17:08	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/14/22 17:08	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/14/22 17:08	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/14/22 17:08	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/14/22 17:08	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/14/22 17:08	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/14/22 17:08	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/14/22 17:08	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 17:08	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/14/22 17:08	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/14/22 17:08	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/14/22 17:08	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/14/22 17:08	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 17:08	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 17:08	1

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QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-60912/9

Matrix: Water

Analysis Batch: 60912

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/14/22 17:08	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/14/22 17:08	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 17:08	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 17:08	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/14/22 17:08	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/14/22 17:08	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/14/22 17:08	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/14/22 17:08	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/14/22 17:08	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/14/22 17:08	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/14/22 17:08	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/14/22 17:08	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/14/22 17:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		07/14/22 17:08	1
Dibromofluoromethane (Surr)	100		75 - 131		07/14/22 17:08	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		07/14/22 17:08	1
Toluene-d8 (Surr)	98		80 - 117		07/14/22 17:08	1

Lab Sample ID: LCS 860-60912/3

Matrix: Water

Analysis Batch: 60912

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	0.04749		mg/L		95	66 - 142
Bromobenzene	0.0500	0.04767		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04865		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04774		mg/L		95	75 - 125
Bromoform	0.0500	0.04756		mg/L		95	75 - 125
Bromomethane	0.0500	0.04370		mg/L		87	60 - 140
2-Butanone	0.250	0.2505		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.04360		mg/L		87	62 - 125
Chlorobenzene	0.0500	0.04714		mg/L		94	60 - 133
Chloroethane	0.0500	0.05108		mg/L		102	60 - 140
Chloroform	0.0500	0.04856		mg/L		97	70 - 130
Chloromethane	0.0500	0.04007		mg/L		80	60 - 140
2-Chlorotoluene	0.0500	0.04863		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.04983		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04877		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04990		mg/L		100	74 - 125
Dibromochloromethane	0.0500	0.04718		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05081		mg/L		102	59 - 125
1,2-Dibromoethane	0.0500	0.04939		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04943		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04881		mg/L		98	75 - 125
1,4-Dichlorobenzene	0.0500	0.04827		mg/L		97	75 - 125
Dichlorodifluoromethane	0.0500	0.03222	*-	mg/L		64	70 - 130

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QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-60912/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 60912							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04974		mg/L		99	72 - 125
1,2-Dichloroethane	0.0500	0.04927		mg/L		99	68 - 127
1,1-Dichloroethene	0.0500	0.04555		mg/L		91	59 - 172
1,2-Dichloropropane	0.0500	0.04893		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04979		mg/L		100	75 - 125
2,2-Dichloropropane	0.0500	0.04798		mg/L		96	75 - 125
1,1-Dichloropropene	0.0500	0.04627		mg/L		93	75 - 125
Ethylbenzene	0.0500	0.04812		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04820		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04931		mg/L		99	75 - 125
Methylene Chloride	0.0500	0.04940		mg/L		99	75 - 125
m,p-Xylenes	0.0500	0.04936		mg/L		99	75 - 125
MTBE	0.0500	0.05334		mg/L		107	65 - 135
Naphthalene	0.0500	0.05844		mg/L		117	70 - 130
n-Butylbenzene	0.0500	0.05014		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04883		mg/L		98	75 - 125
o-Xylene	0.0500	0.04900		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05065		mg/L		101	75 - 125
sec-Butylbenzene	0.0500	0.04948		mg/L		99	75 - 125
Styrene	0.0500	0.04968		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.04885		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04769		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05054		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.04586		mg/L		92	71 - 125
Toluene	0.0500	0.04669		mg/L		93	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04703		mg/L		94	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04876		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05510		mg/L		110	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05186		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.04763		mg/L		95	75 - 125
1,1,2-Trichloroethane	0.0500	0.04913		mg/L		98	75 - 127
Trichloroethene	0.0500	0.04772		mg/L		95	62 - 137
Trichlorofluoromethane	0.0500	0.04730		mg/L		95	60 - 140
1,2,3-Trichloropropane	0.0500	0.05106		mg/L		102	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05022		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04960		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04458		mg/L		89	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		74 - 124				
Dibromofluoromethane (Surr)	100		75 - 131				
1,2-Dichloroethane-d4 (Surr)	103		63 - 144				
Toluene-d8 (Surr)	100		80 - 117				

QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-60912/4

Matrix: Water

Analysis Batch: 60912

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	0.04800		mg/L		96	66 - 142	1	25
Bromobenzene	0.0500	0.04685		mg/L		94	75 - 125	2	25
Bromochloromethane	0.0500	0.04844		mg/L		97	60 - 140	0	25
Bromodichloromethane	0.0500	0.04720		mg/L		94	75 - 125	1	25
Bromoform	0.0500	0.04828		mg/L		97	75 - 125	2	25
Bromomethane	0.0500	0.04328		mg/L		87	60 - 140	1	25
2-Butanone	0.250	0.2534		mg/L		101	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04626		mg/L		93	62 - 125	6	25
Chlorobenzene	0.0500	0.04743		mg/L		95	60 - 133	1	25
Chloroethane	0.0500	0.05209		mg/L		104	60 - 140	2	25
Chloroform	0.0500	0.04890		mg/L		98	70 - 130	1	25
Chloromethane	0.0500	0.04034		mg/L		81	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04909		mg/L		98	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04991		mg/L		100	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04918		mg/L		98	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04941		mg/L		99	74 - 125	1	25
Dibromochloromethane	0.0500	0.04652		mg/L		93	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05163		mg/L		103	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.04923		mg/L		98	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.04976		mg/L		100	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04914		mg/L		98	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04828		mg/L		97	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.03420	*	mg/L		68	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.05064		mg/L		101	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.04824		mg/L		96	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04633		mg/L		93	59 - 172	2	25
1,2-Dichloropropane	0.0500	0.04889		mg/L		98	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04922		mg/L		98	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04936		mg/L		99	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04873		mg/L		97	75 - 125	5	25
Ethylbenzene	0.0500	0.04902		mg/L		98	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05153		mg/L		103	75 - 125	7	25
Isopropylbenzene	0.0500	0.05042		mg/L		101	75 - 125	2	25
Methylene Chloride	0.0500	0.04930		mg/L		99	75 - 125	0	25
m,p-Xylenes	0.0500	0.04944		mg/L		99	75 - 125	0	25
MTBE	0.0500	0.05348		mg/L		107	65 - 135	0	25
Naphthalene	0.0500	0.06044		mg/L		121	70 - 130	3	25
n-Butylbenzene	0.0500	0.05253		mg/L		105	75 - 125	5	25
N-Propylbenzene	0.0500	0.05037		mg/L		101	75 - 125	3	25
o-Xylene	0.0500	0.04964		mg/L		99	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05268		mg/L		105	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05210		mg/L		104	75 - 125	5	25
Styrene	0.0500	0.04878		mg/L		98	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05098		mg/L		102	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04713		mg/L		94	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05088		mg/L		102	74 - 125	1	25
Tetrachloroethene	0.0500	0.04684		mg/L		94	71 - 125	2	25
Toluene	0.0500	0.04720		mg/L		94	59 - 139	1	25

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QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-60912/4

Matrix: Water

Analysis Batch: 60912

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	0.04772		mg/L		95	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.04800		mg/L		96	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05746		mg/L		115	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05358		mg/L		107	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04866		mg/L		97	75 - 125	2	25
1,1,2-Trichloroethane	0.0500	0.04850		mg/L		97	75 - 127	1	25
Trichloroethene	0.0500	0.04859		mg/L		97	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.05050		mg/L		101	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05100		mg/L		102	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05147		mg/L		103	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05070		mg/L		101	60 - 140	2	25
Vinyl chloride	0.0500	0.04627		mg/L		93	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	99		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-60934/3

Matrix: Water

Analysis Batch: 60934

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			07/14/22 12:58	1
Chloride	0.2482	J	0.500	0.200 mg/L			07/14/22 12:58	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/14/22 12:58	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/14/22 12:58	1

Lab Sample ID: MB 860-60934/48

Matrix: Water

Analysis Batch: 60934

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			07/14/22 22:14	1
Chloride	0.2283	J	0.500	0.200 mg/L			07/14/22 22:14	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/14/22 22:14	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/14/22 22:14	1

Lab Sample ID: LCS 860-60934/49

Matrix: Water

Analysis Batch: 60934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	10.15		mg/L		101	90 - 110
Chloride	10.0	9.891		mg/L		99	90 - 110
Fluoride	10.0	10.27		mg/L		103	90 - 110

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QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-60934/49

Matrix: Water

Analysis Batch: 60934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.15		mg/L		102	90 - 110

Lab Sample ID: LCS 860-60934/6

Matrix: Water

Analysis Batch: 60934

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	10.04		mg/L		100	90 - 110
Chloride	10.0	9.777		mg/L		98	90 - 110
Fluoride	10.0	10.21		mg/L		102	90 - 110
Sulfate	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-60934/50

Matrix: Water

Analysis Batch: 60934

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	10.13		mg/L		101	90 - 110	0	20
Chloride	10.0	9.818		mg/L		98	90 - 110	1	20
Fluoride	10.0	10.28		mg/L		103	90 - 110	0	20
Sulfate	10.0	10.13		mg/L		101	90 - 110	0	20

Lab Sample ID: LCSD 860-60934/7

Matrix: Water

Analysis Batch: 60934

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	10.03		mg/L		100	90 - 110	0	20
Chloride	10.0	9.699		mg/L		97	90 - 110	1	20
Fluoride	10.0	10.20		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.995		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-60934/5

Matrix: Water

Analysis Batch: 60934

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	0.5607		mg/L		112	50 - 150
Chloride	0.500	0.5777		mg/L		116	50 - 150
Fluoride	0.500	0.4906	J	mg/L		98	50 - 150
Sulfate	0.500	0.5527		mg/L		111	50 - 150

Lab Sample ID: MB 860-60935/3

Matrix: Water

Analysis Batch: 60935

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			07/14/22 12:58	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/14/22 12:58	1

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QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-60935/48

Matrix: Water

Analysis Batch: 60935

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			07/14/22 22:14	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/14/22 22:14	1

Lab Sample ID: LCS 860-60935/49

Matrix: Water

Analysis Batch: 60935

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	9.884		mg/L		99	80 - 120
Nitrite as N	5.00	5.015		mg/L		100	80 - 120

Lab Sample ID: LCS 860-60935/6

Matrix: Water

Analysis Batch: 60935

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	9.859		mg/L		99	80 - 120
Nitrite as N	5.00	5.053		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-60935/50

Matrix: Water

Analysis Batch: 60935

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	9.863		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.012		mg/L		100	80 - 120	0	20

Lab Sample ID: LCSD 860-60935/7

Matrix: Water

Analysis Batch: 60935

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	9.831		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	5.044		mg/L		101	80 - 120	0	20

Lab Sample ID: LLCS 860-60935/4

Matrix: Water

Analysis Batch: 60935

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	0.1199		mg/L		120	50 - 150
Nitrite as N	0.100	0.1150		mg/L		115	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-61078/1-A

Matrix: Water

Analysis Batch: 61434

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 61078

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		07/15/22 09:45	07/17/22 13:47	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/15/22 09:45	07/17/22 13:47	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/15/22 09:45	07/17/22 13:47	1
Sodium	<0.152	U	0.500	0.152 mg/L		07/15/22 09:45	07/17/22 13:47	1
SiO2	<0.471	U	1.07	0.471 mg/L		07/15/22 09:45	07/17/22 13:47	1

Lab Sample ID: LCS 860-61078/2-A

Matrix: Water

Analysis Batch: 61434

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 61078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.16		mg/L		101	85 - 115
Magnesium	25.0	24.74		mg/L		99	85 - 115
Potassium	10.0	10.09		mg/L		101	85 - 115
Sodium	25.0	24.49		mg/L		98	85 - 115
SiO2	21.4	22.08		mg/L		103	85 - 115

Lab Sample ID: LCSD 860-61078/3-A

Matrix: Water

Analysis Batch: 61434

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 61078

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.13		mg/L		101	85 - 115	0	20
Magnesium	25.0	24.78		mg/L		99	85 - 115	0	20
Potassium	10.0	10.10		mg/L		101	85 - 115	0	20
Sodium	25.0	24.49		mg/L		98	85 - 115	0	20
SiO2	21.4	22.14		mg/L		103	85 - 115	0	20

Lab Sample ID: LLCS 860-61078/4-A

Matrix: Water

Analysis Batch: 61434

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 61078

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2028		mg/L		101	50 - 150
Magnesium	0.200	0.1950	J	mg/L		97	50 - 150
Potassium	0.500	0.5241		mg/L		105	50 - 150
Sodium	0.500	0.3799	J	mg/L		76	50 - 150
SiO2	1.07	1.114		mg/L		104	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-61196/4

Matrix: Water

Analysis Batch: 61196

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			07/15/22 11:40	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/15/22 11:40	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/15/22 11:40	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/15/22 11:40	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-61196/4

Matrix: Water

Analysis Batch: 61196

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/15/22 11:40	1

Lab Sample ID: LCS 860-61196/5

Matrix: Water

Analysis Batch: 61196

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	244.1		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-61196/6

Matrix: Water

Analysis Batch: 61196

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	248.7		mg/L		99	85 - 115	2	20

Lab Sample ID: 880-16903-1 DU

Matrix: Water

Analysis Batch: 61196

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	417		411.0		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	417		411.0		mg/L		1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-61188/1

Matrix: Water

Analysis Batch: 61188

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			07/15/22 14:50	1

Lab Sample ID: LCS 860-61188/2

Matrix: Water

Analysis Batch: 61188

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	947.0		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-61188/3

Matrix: Water

Analysis Batch: 61188

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	1014		mg/L		101	80 - 120	7	10

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QC Sample Results

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

Job ID: 880-16903-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-61188/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 61188							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		60	50 - 150

QC Association Summary

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

Job ID: 880-16903-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 60912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	8260C	
MB 860-60912/9	Method Blank	Total/NA	Water	8260C	
LCS 860-60912/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-60912/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 60934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	300.0	
MB 860-60934/3	Method Blank	Total/NA	Water	300.0	
MB 860-60934/48	Method Blank	Total/NA	Water	300.0	
LCS 860-60934/49	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-60934/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60934/50	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-60934/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60934/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 60935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	300.0	
MB 860-60935/3	Method Blank	Total/NA	Water	300.0	
MB 860-60935/48	Method Blank	Total/NA	Water	300.0	
LCS 860-60935/49	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-60935/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60935/50	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-60935/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60935/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 61078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-61078/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-61078/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-61078/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-61078/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 61434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	61078
880-16903-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	61078
MB 860-61078/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	61078
LCS 860-61078/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	61078
LCSD 860-61078/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	61078
LLCS 860-61078/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	61078

Eurofins Midland

QC Association Summary

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

Job ID: 880-16903-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 61002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 61188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-61188/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-61188/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-61188/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-61188/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 61196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-61196/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-61196/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-61196/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-16903-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 61502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16903-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-16903-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-16903-1
Date Collected: 07/13/22 10:15 Matrix: Water
Date Received: 07/13/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	60912	07/14/22 19:52	T1S	XEN STF
Total/NA	Analysis	300.0		1	60934	07/14/22 22:50	WP	XEN STF
Total/NA	Analysis	300.0		1	60935	07/14/22 22:50	WP	XEN STF
Total Recoverable	Prep	200.7			61078	07/15/22 09:45	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	61434	07/17/22 15:08	DP	XEN STF
Total Recoverable	Prep	200.7			61078	07/15/22 09:45	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	61434	07/17/22 15:22	DP	XEN STF
Total/NA	Analysis	SM 1030E		1	61502	07/19/22 09:02	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	61196	07/15/22 12:08	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	61188	07/15/22 14:50	ADL	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	61002	07/14/22 15:28	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-16903-1
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	T104704215-22-46	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: 880-16903-1
SDG: Hobbs NM

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

Protocol References:

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

Laboratory References:

- XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-16903-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16903-1	Levey Well	Water	07/13/22 10:15	07/13/22 15:09

- 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) 565-3443 Lubbock, TX (806) 794-1296



880-16903 Chain of Custody

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley #210	Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenning@ensolum.com

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

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

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	20/23	Thermopier ID			
Received Intact:	Yes ☒ No ☐	Correction Factor:			
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:			
Sample Custody Seals:	Yes ☒ No ☐ N/A				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	VOCs	Anions:	Cations:	pH	Alkalinity	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	2 <i>[Signature]</i>	7/13/22	3 <i>[Signature]</i>	4 <i>[Signature]</i>	1509
5	6				

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16903-1

SDG Number: Hobbs NM

Login Number: 16903

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: 880-16903-1

SDG Number: Hobbs NM

Login Number: 16903

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 07/14/22 01:53 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16904-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

7/19/2022 9:10:45 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-16904-1

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Definitions/Glossary

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

Job ID: 880-16904-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

Definitions/Glossary

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

Job ID: 880-16904-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

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

Job ID: 880-16904-1

Job ID: 880-16904-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-16904-1

Receipt

The samples were received on 7/13/2022 3:09 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 2.3°C

GC/MS VOA

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-60912 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The method blank for preparation batch MB-860-60912 contained Chloromethane 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.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-60934 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-60935 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16904-1

Date Collected: 07/13/22 11:05

Matrix: Water

Date Received: 07/13/22 15:09

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 18:51	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/14/22 18:51	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/14/22 18:51	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/14/22 18:51	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/14/22 18:51	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/14/22 18:51	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/14/22 18:51	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/14/22 18:51	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/14/22 18:51	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/14/22 18:51	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/14/22 18:51	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/14/22 18:51	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 18:51	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/14/22 18:51	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/14/22 18:51	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/14/22 18:51	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/14/22 18:51	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/14/22 18:51	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/14/22 18:51	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/14/22 18:51	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/14/22 18:51	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 18:51	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316 mg/L			07/14/22 18:51	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/14/22 18:51	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/14/22 18:51	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/14/22 18:51	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/14/22 18:51	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/14/22 18:51	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/14/22 18:51	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/14/22 18:51	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/14/22 18:51	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 18:51	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/14/22 18:51	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/14/22 18:51	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/14/22 18:51	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/14/22 18:51	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/14/22 18:51	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/14/22 18:51	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/14/22 18:51	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/14/22 18:51	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/14/22 18:51	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 18:51	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/14/22 18:51	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/14/22 18:51	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/14/22 18:51	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/14/22 18:51	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 18:51	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 18:51	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/14/22 18:51	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16904-1

Date Collected: 07/13/22 11:05

Matrix: Water

Date Received: 07/13/22 15:09

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/14/22 18:51	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 18:51	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 18:51	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/14/22 18:51	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/14/22 18:51	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/14/22 18:51	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/14/22 18:51	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/14/22 18:51	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/14/22 18:51	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/14/22 18:51	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/14/22 18:51	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/14/22 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		07/14/22 18:51	1
Dibromofluoromethane (Surr)	103		75 - 131		07/14/22 18:51	1
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		07/14/22 18:51	1
Toluene-d8 (Surr)	102		80 - 117		07/14/22 18:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950 mg/L			07/15/22 11:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950 mg/L		07/14/22 14:19	07/14/22 19:42	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950 mg/L		07/14/22 14:19	07/14/22 19:42	1
Oil Range Organics (Over C28-C36)	<0.917	U	4.81	0.917 mg/L		07/14/22 14:19	07/14/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 135			07/14/22 14:19	07/14/22 19:42	1
o-Terphenyl	99		70 - 135			07/14/22 14:19	07/14/22 19:42	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.3	B	0.500	0.200 mg/L			07/14/22 23:14	1
Nitrate as N	0.102		0.100	0.0391 mg/L			07/14/22 23:14	1
Fluoride	0.778		0.500	0.100 mg/L			07/14/22 23:14	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			07/14/22 23:14	1
Sulfate	49.2		0.500	0.109 mg/L			07/14/22 23:14	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	253		4.00	4.00 mg/L			07/15/22 12:26	1
Bicarbonate Alkalinity as CaCO3	253		4.00	4.00 mg/L			07/15/22 12:26	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/15/22 12:26	1
Carbon dioxide	254			mg/L			07/19/22 08:59	1
Carbon Dioxide, Free	31.9			mg/L			07/19/22 08:59	1
pH	7.2	HF		SU			07/14/22 15:30	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-16904-1

Date Collected: 07/13/22 11:05

Matrix: Water

Date Received: 07/13/22 15:09

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	20.6	HF		Degrees C			07/14/22 15:30	1
Sulfide	<0.495	U	5.00	0.495 mg/L			07/15/22 17:42	1

Client Sample ID: MW-2

Lab Sample ID: 880-16904-2

Date Collected: 07/13/22 12:25

Matrix: Water

Date Received: 07/13/22 15:09

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0195		0.00100	0.000214 mg/L			07/14/22 19:11	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/14/22 19:11	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/14/22 19:11	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/14/22 19:11	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/14/22 19:11	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/14/22 19:11	1
2-Butanone	0.00500	J	0.0500	0.00270 mg/L			07/14/22 19:11	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/14/22 19:11	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/14/22 19:11	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/14/22 19:11	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/14/22 19:11	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/14/22 19:11	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 19:11	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/14/22 19:11	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/14/22 19:11	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/14/22 19:11	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/14/22 19:11	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/14/22 19:11	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/14/22 19:11	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/14/22 19:11	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/14/22 19:11	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 19:11	1
Dichlorodifluoromethane	<0.000316	U *	0.00100	0.000316 mg/L			07/14/22 19:11	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/14/22 19:11	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/14/22 19:11	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/14/22 19:11	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/14/22 19:11	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/14/22 19:11	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/14/22 19:11	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/14/22 19:11	1
Ethylbenzene	0.0116		0.00100	0.000515 mg/L			07/14/22 19:11	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 19:11	1
Isopropylbenzene	0.00497		0.00100	0.000161 mg/L			07/14/22 19:11	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/14/22 19:11	1
m,p-Xylenes	0.0559		0.0100	0.000330 mg/L			07/14/22 19:11	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/14/22 19:11	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/14/22 19:11	1
n-Butylbenzene	0.000355	J	0.00100	0.000286 mg/L			07/14/22 19:11	1
N-Propylbenzene	0.00135		0.00100	0.000179 mg/L			07/14/22 19:11	1
o-Xylene	0.00359		0.00100	0.000192 mg/L			07/14/22 19:11	1
p-Cymene (p-Isopropyltoluene)	0.000398	J	0.00100	0.000233 mg/L			07/14/22 19:11	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-16904-2

Date Collected: 07/13/22 12:25

Matrix: Water

Date Received: 07/13/22 15:09

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.000525	J	0.00100	0.000199 mg/L			07/14/22 19:11	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/14/22 19:11	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/14/22 19:11	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/14/22 19:11	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/14/22 19:11	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 19:11	1
Toluene	0.00107		0.00100	0.000500 mg/L			07/14/22 19:11	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/14/22 19:11	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/14/22 19:11	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 19:11	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 19:11	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/14/22 19:11	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/14/22 19:11	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/14/22 19:11	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/14/22 19:11	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/14/22 19:11	1
1,2,4-Trimethylbenzene	0.0153		0.00100	0.000252 mg/L			07/14/22 19:11	1
1,3,5-Trimethylbenzene	0.00391		0.00100	0.000279 mg/L			07/14/22 19:11	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/14/22 19:11	1
Xylenes, Total	0.0595		0.0100	0.000330 mg/L			07/14/22 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/14/22 19:11	1
Dibromofluoromethane (Surr)	101		75 - 131		07/14/22 19:11	1
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		07/14/22 19:11	1
Toluene-d8 (Surr)	101		80 - 117		07/14/22 19:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.17	J	4.79	0.947 mg/L			07/15/22 11:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.17	J	4.79	0.947 mg/L		07/14/22 14:19	07/14/22 20:02	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947 mg/L		07/14/22 14:19	07/14/22 20:02	1
Oil Range Organics (Over C28-C36)	<0.914	U	4.79	0.914 mg/L		07/14/22 14:19	07/14/22 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	07/14/22 14:19	07/14/22 20:02	1
o-Terphenyl	85		70 - 135	07/14/22 14:19	07/14/22 20:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3	B	0.500	0.200 mg/L			07/14/22 23:50	1
Nitrate as N	0.306		0.100	0.0391 mg/L			07/14/22 23:50	1
Fluoride	0.262	J	0.500	0.100 mg/L			07/14/22 23:50	1
Nitrite as N	1.23		0.100	0.0293 mg/L			07/14/22 23:50	1
Sulfate	100		0.500	0.109 mg/L			07/14/22 23:50	1

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Client Sample Results

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

Job ID: 880-16904-1

Client Sample ID: MW-2
Date Collected: 07/13/22 12:25
Date Received: 07/13/22 15:09

Lab Sample ID: 880-16904-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1280		4.00	4.00	mg/L			07/15/22 12:42	1
Bicarbonate Alkalinity as CaCO3	1280		4.00	4.00	mg/L			07/15/22 12:42	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/15/22 12:42	1
Carbon dioxide	2730				mg/L			07/19/22 08:59	1
Carbon Dioxide, Free	1610				mg/L			07/19/22 08:59	1
pH	6.2	HF			SU			07/14/22 15:33	1
Temperature	20.1	HF			Degrees C			07/14/22 15:33	1
Sulfide	<0.495	U	5.00	0.495	mg/L			07/15/22 17:43	1

Surrogate Summary

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

Job ID: 880-16904-1

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)
860-29447-D-3 MS	Matrix Spike	103	101	101	100
880-16904-1	MW-1	104	103	109	102
880-16904-2	MW-2	102	101	109	101
LCS 860-60912/3	Lab Control Sample	101	100	103	100
LCSD 860-60912/4	Lab Control Sample Dup	101	100	102	99
MB 860-60912/9	Method Blank	98	100	106	98
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)
880-16904-1	MW-1	114	99
880-16904-2	MW-2	98	85
LCS 860-60941/2-A	Lab Control Sample	108	98
LCSD 860-60941/3-A	Lab Control Sample Dup	103	95
MB 860-60941/1-A	Method Blank	98	85
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-60912/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 17:08	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/14/22 17:08	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/14/22 17:08	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/14/22 17:08	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/14/22 17:08	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/14/22 17:08	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/14/22 17:08	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/14/22 17:08	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/14/22 17:08	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/14/22 17:08	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/14/22 17:08	1
Chloromethane	0.0004825	J	0.0100	0.000318 mg/L			07/14/22 17:08	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/14/22 17:08	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/14/22 17:08	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/14/22 17:08	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/14/22 17:08	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/14/22 17:08	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/14/22 17:08	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/14/22 17:08	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/14/22 17:08	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/14/22 17:08	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 17:08	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/14/22 17:08	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/14/22 17:08	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/14/22 17:08	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/14/22 17:08	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/14/22 17:08	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/14/22 17:08	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/14/22 17:08	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/14/22 17:08	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/14/22 17:08	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 17:08	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/14/22 17:08	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/14/22 17:08	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/14/22 17:08	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/14/22 17:08	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/14/22 17:08	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/14/22 17:08	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/14/22 17:08	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/14/22 17:08	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/14/22 17:08	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/14/22 17:08	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/14/22 17:08	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/14/22 17:08	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/14/22 17:08	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/14/22 17:08	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 17:08	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/14/22 17:08	1

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QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-60912/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/14/22 17:08	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/14/22 17:08	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 17:08	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/14/22 17:08	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/14/22 17:08	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/14/22 17:08	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/14/22 17:08	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/14/22 17:08	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/14/22 17:08	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/14/22 17:08	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/14/22 17:08	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/14/22 17:08	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/14/22 17:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		07/14/22 17:08	1
Dibromofluoromethane (Surr)	100		75 - 131		07/14/22 17:08	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		07/14/22 17:08	1
Toluene-d8 (Surr)	98		80 - 117		07/14/22 17:08	1

Lab Sample ID: LCS 860-60912/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 60912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04749		mg/L		95	66 - 142
Bromobenzene	0.0500	0.04767		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04865		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04774		mg/L		95	75 - 125
Bromoform	0.0500	0.04756		mg/L		95	75 - 125
Bromomethane	0.0500	0.04370		mg/L		87	60 - 140
2-Butanone	0.250	0.2505		mg/L		100	60 - 140
Carbon tetrachloride	0.0500	0.04360		mg/L		87	62 - 125
Chlorobenzene	0.0500	0.04714		mg/L		94	60 - 133
Chloroethane	0.0500	0.05108		mg/L		102	60 - 140
Chloroform	0.0500	0.04856		mg/L		97	70 - 130
Chloromethane	0.0500	0.04007		mg/L		80	60 - 140
2-Chlorotoluene	0.0500	0.04863		mg/L		97	73 - 125
4-Chlorotoluene	0.0500	0.04983		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04877		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04990		mg/L		100	74 - 125
Dibromochloromethane	0.0500	0.04718		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05081		mg/L		102	59 - 125
1,2-Dibromoethane	0.0500	0.04939		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04943		mg/L		99	75 - 125
1,3-Dichlorobenzene	0.0500	0.04881		mg/L		98	75 - 125
1,4-Dichlorobenzene	0.0500	0.04827		mg/L		97	75 - 125
Dichlorodifluoromethane	0.0500	0.03222	*-	mg/L		64	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-60912/3

Matrix: Water

Analysis Batch: 60912

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	0.04974		mg/L		99	72 - 125
1,2-Dichloroethane	0.0500	0.04927		mg/L		99	68 - 127
1,1-Dichloroethene	0.0500	0.04555		mg/L		91	59 - 172
1,2-Dichloropropane	0.0500	0.04893		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04979		mg/L		100	75 - 125
2,2-Dichloropropane	0.0500	0.04798		mg/L		96	75 - 125
1,1-Dichloropropene	0.0500	0.04627		mg/L		93	75 - 125
Ethylbenzene	0.0500	0.04812		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04820		mg/L		96	75 - 125
Isopropylbenzene	0.0500	0.04931		mg/L		99	75 - 125
Methylene Chloride	0.0500	0.04940		mg/L		99	75 - 125
m,p-Xylenes	0.0500	0.04936		mg/L		99	75 - 125
MTBE	0.0500	0.05334		mg/L		107	65 - 135
Naphthalene	0.0500	0.05844		mg/L		117	70 - 130
n-Butylbenzene	0.0500	0.05014		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04883		mg/L		98	75 - 125
o-Xylene	0.0500	0.04900		mg/L		98	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05065		mg/L		101	75 - 125
sec-Butylbenzene	0.0500	0.04948		mg/L		99	75 - 125
Styrene	0.0500	0.04968		mg/L		99	75 - 125
tert-Butylbenzene	0.0500	0.04885		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04769		mg/L		95	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05054		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.04586		mg/L		92	71 - 125
Toluene	0.0500	0.04669		mg/L		93	59 - 139
trans-1,2-Dichloroethene	0.0500	0.04703		mg/L		94	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04876		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05510		mg/L		110	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05186		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.04763		mg/L		95	75 - 125
1,1,2-Trichloroethane	0.0500	0.04913		mg/L		98	75 - 127
Trichloroethene	0.0500	0.04772		mg/L		95	62 - 137
Trichlorofluoromethane	0.0500	0.04730		mg/L		95	60 - 140
1,2,3-Trichloropropane	0.0500	0.05106		mg/L		102	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05022		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04960		mg/L		99	60 - 140
Vinyl chloride	0.0500	0.04458		mg/L		89	60 - 140

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

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QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-60912/4

Matrix: Water

Analysis Batch: 60912

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	0.04800		mg/L		96	66 - 142	1	25
Bromobenzene	0.0500	0.04685		mg/L		94	75 - 125	2	25
Bromochloromethane	0.0500	0.04844		mg/L		97	60 - 140	0	25
Bromodichloromethane	0.0500	0.04720		mg/L		94	75 - 125	1	25
Bromoform	0.0500	0.04828		mg/L		97	75 - 125	2	25
Bromomethane	0.0500	0.04328		mg/L		87	60 - 140	1	25
2-Butanone	0.250	0.2534		mg/L		101	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04626		mg/L		93	62 - 125	6	25
Chlorobenzene	0.0500	0.04743		mg/L		95	60 - 133	1	25
Chloroethane	0.0500	0.05209		mg/L		104	60 - 140	2	25
Chloroform	0.0500	0.04890		mg/L		98	70 - 130	1	25
Chloromethane	0.0500	0.04034		mg/L		81	60 - 140	1	25
2-Chlorotoluene	0.0500	0.04909		mg/L		98	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04991		mg/L		100	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04918		mg/L		98	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04941		mg/L		99	74 - 125	1	25
Dibromochloromethane	0.0500	0.04652		mg/L		93	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05163		mg/L		103	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.04923		mg/L		98	73 - 125	0	25
1,2-Dichlorobenzene	0.0500	0.04976		mg/L		100	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04914		mg/L		98	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04828		mg/L		97	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.03420	*	mg/L		68	70 - 130	6	25
1,1-Dichloroethane	0.0500	0.05064		mg/L		101	72 - 125	2	25
1,2-Dichloroethane	0.0500	0.04824		mg/L		96	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04633		mg/L		93	59 - 172	2	25
1,2-Dichloropropane	0.0500	0.04889		mg/L		98	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04922		mg/L		98	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04936		mg/L		99	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04873		mg/L		97	75 - 125	5	25
Ethylbenzene	0.0500	0.04902		mg/L		98	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05153		mg/L		103	75 - 125	7	25
Isopropylbenzene	0.0500	0.05042		mg/L		101	75 - 125	2	25
Methylene Chloride	0.0500	0.04930		mg/L		99	75 - 125	0	25
m,p-Xylenes	0.0500	0.04944		mg/L		99	75 - 125	0	25
MTBE	0.0500	0.05348		mg/L		107	65 - 135	0	25
Naphthalene	0.0500	0.06044		mg/L		121	70 - 130	3	25
n-Butylbenzene	0.0500	0.05253		mg/L		105	75 - 125	5	25
N-Propylbenzene	0.0500	0.05037		mg/L		101	75 - 125	3	25
o-Xylene	0.0500	0.04964		mg/L		99	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05268		mg/L		105	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05210		mg/L		104	75 - 125	5	25
Styrene	0.0500	0.04878		mg/L		98	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05098		mg/L		102	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.04713		mg/L		94	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05088		mg/L		102	74 - 125	1	25
Tetrachloroethene	0.0500	0.04684		mg/L		94	71 - 125	2	25
Toluene	0.0500	0.04720		mg/L		94	59 - 139	1	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-60912/4

Matrix: Water

Analysis Batch: 60912

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	0.04772		mg/L		95	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.04800		mg/L		96	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05746		mg/L		115	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05358		mg/L		107	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04866		mg/L		97	75 - 125	2	25
1,1,2-Trichloroethane	0.0500	0.04850		mg/L		97	75 - 127	1	25
Trichloroethene	0.0500	0.04859		mg/L		97	62 - 137	2	25
Trichlorofluoromethane	0.0500	0.05050		mg/L		101	60 - 140	7	25
1,2,3-Trichloropropane	0.0500	0.05100		mg/L		102	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05147		mg/L		103	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.05070		mg/L		101	60 - 140	2	25
Vinyl chloride	0.0500	0.04627		mg/L		93	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	99		80 - 117

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

Lab Sample ID: MB 860-60941/1-A

Matrix: Water

Analysis Batch: 60905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60941

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		07/14/22 12:20	07/14/22 19:02	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/14/22 12:20	07/14/22 19:02	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/14/22 12:20	07/14/22 19:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	07/14/22 12:20	07/14/22 19:02	1
o-Terphenyl	85		70 - 135	07/14/22 12:20	07/14/22 19:02	1

Lab Sample ID: LCS 860-60941/2-A

Matrix: Water

Analysis Batch: 60905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.8	113.9		mg/L		114	70 - 135
Diesel Range Organics (Over C10-C28)	100	103.8		mg/L		104	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 135
o-Terphenyl	98		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-60941/3-A

Matrix: Water

Analysis Batch: 60905

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60941

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier					Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	99.8	116.3			mg/L		116	70 - 135	2	35	
Diesel Range Organics (Over C10-C28)	100	108.1			mg/L		108	70 - 135	4	35	
Surrogate											
LCSD		LCSD		Limits							
%Recovery		Qualifier									
1-Chlorooctane		103		70 - 135							
o-Terphenyl		95		70 - 135							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-60934/3

Matrix: Water

Analysis Batch: 60934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	0.2482	J	0.500	0.200 mg/L			07/14/22 12:58	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/14/22 12:58	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/14/22 12:58	1

Lab Sample ID: MB 860-60934/48

Matrix: Water

Analysis Batch: 60934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	0.2283	J	0.500	0.200 mg/L			07/14/22 22:14	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/14/22 22:14	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/14/22 22:14	1

Lab Sample ID: LCS 860-60934/49

Matrix: Water

Analysis Batch: 60934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec			
	Added	Result	Qualifier					Limits	RPD	Limit	
Chloride	10.0	9.891			mg/L		99	90 - 110			
Fluoride	10.0	10.27			mg/L		103	90 - 110			
Sulfate	10.0	10.15			mg/L		102	90 - 110			

Lab Sample ID: LCSD 860-60934/50

Matrix: Water

Analysis Batch: 60934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier					Limits	RPD	Limit	
Chloride	10.0	9.818			mg/L		98	90 - 110	1	20	
Fluoride	10.0	10.28			mg/L		103	90 - 110	0	20	
Sulfate	10.0	10.13			mg/L		101	90 - 110	0	20	

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QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-60934/5

Matrix: Water

Analysis Batch: 60934

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	0.5777		mg/L		116	50 - 150
Fluoride	0.500	0.4906	J	mg/L		98	50 - 150
Sulfate	0.500	0.5527		mg/L		111	50 - 150

Lab Sample ID: 880-16904-1 MS

Matrix: Water

Analysis Batch: 60934

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	91.3	B	10.0	98.31	4	mg/L		70	90 - 110
Fluoride	0.778		10.0	10.59		mg/L		98	90 - 110
Sulfate	49.2		10.0	60.19	4	mg/L		109	90 - 110

Lab Sample ID: 880-16904-1 MSD

Matrix: Water

Analysis Batch: 60934

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	91.3	B	10.0	98.56	4	mg/L		72	90 - 110	0	20
Fluoride	0.778		10.0	10.80		mg/L		100	90 - 110	2	20
Sulfate	49.2		10.0	60.50	4	mg/L		113	90 - 110	1	20

Lab Sample ID: MB 860-60935/3

Matrix: Water

Analysis Batch: 60935

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			07/14/22 12:58	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/14/22 12:58	1

Lab Sample ID: MB 860-60935/48

Matrix: Water

Analysis Batch: 60935

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			07/14/22 22:14	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/14/22 22:14	1

Lab Sample ID: LCS 860-60935/49

Matrix: Water

Analysis Batch: 60935

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	9.884		mg/L		99	80 - 120
Nitrite as N	5.00	5.015		mg/L		100	80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-60935/50

Matrix: Water

Analysis Batch: 60935

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	9.863		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.012		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-60935/4

Matrix: Water

Analysis Batch: 60935

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	0.1199		mg/L		120	50 - 150		
Nitrite as N	0.100	0.1150		mg/L		115	50 - 150		

Lab Sample ID: 880-16904-1 MS

Matrix: Water

Analysis Batch: 60935

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	0.102		10.0	9.465		mg/L		94	80 - 120		
Nitrite as N	<0.0293	U F1	2.50	3.134	F1	mg/L		125	80 - 120		

Lab Sample ID: 880-16904-1 MSD

Matrix: Water

Analysis Batch: 60935

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	0.102		10.0	9.675		mg/L		96	80 - 120	2	15
Nitrite as N	<0.0293	U F1	2.50	3.200	F1	mg/L		128	80 - 120	2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-61196/4

Matrix: Water

Analysis Batch: 61196

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			07/15/22 11:40	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/15/22 11:40	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/15/22 11:40	1

Lab Sample ID: LCS 860-61196/5

Matrix: Water

Analysis Batch: 61196

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	244.1		mg/L		98	85 - 115		

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-61196/6

Matrix: Water

Analysis Batch: 61196

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	248.7		mg/L		99	85 - 115	2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-61241/1

Matrix: Water

Analysis Batch: 61241

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			07/15/22 17:42	1

Lab Sample ID: LCS 860-61241/2

Matrix: Water

Analysis Batch: 61241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	46.40		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-61241/3

Matrix: Water

Analysis Batch: 61241

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	46.40		mg/L		93	80 - 120	0	20

Lab Sample ID: 880-16904-1 MS

Matrix: Water

Analysis Batch: 61241

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	50.0	45.40		mg/L		91	80 - 120		

Lab Sample ID: 880-16904-1 MSD

Matrix: Water

Analysis Batch: 61241

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	45.40		mg/L		91	80 - 120	0	20

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QC Association Summary

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 60912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	8260C	
880-16904-2	MW-2	Total/NA	Water	8260C	
MB 860-60912/9	Method Blank	Total/NA	Water	8260C	
LCS 860-60912/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-60912/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 59566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	8015 NM	
880-16904-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 60905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	8015B NM	60941
880-16904-2	MW-2	Total/NA	Water	8015B NM	60941
MB 860-60941/1-A	Method Blank	Total/NA	Water	8015B NM	60941
LCS 860-60941/2-A	Lab Control Sample	Total/NA	Water	8015B NM	60941
LCSD 860-60941/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	60941

Prep Batch: 60941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-16904-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-60941/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-60941/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-60941/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 60934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	300.0	
880-16904-2	MW-2	Total/NA	Water	300.0	
MB 860-60934/3	Method Blank	Total/NA	Water	300.0	
MB 860-60934/48	Method Blank	Total/NA	Water	300.0	
LCS 860-60934/49	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60934/50	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60934/5	Lab Control Sample	Total/NA	Water	300.0	
880-16904-1 MS	MW-1	Total/NA	Water	300.0	
880-16904-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 60935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	300.0	
880-16904-2	MW-2	Total/NA	Water	300.0	
MB 860-60935/3	Method Blank	Total/NA	Water	300.0	
MB 860-60935/48	Method Blank	Total/NA	Water	300.0	
LCS 860-60935/49	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-60935/50	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-60935/4	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-16904-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 60935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1 MS	MW-1	Total/NA	Water	300.0	
880-16904-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 61002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-16904-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 61196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	SM 2320B	
880-16904-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-61196/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-61196/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-61196/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 61241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16904-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-61241/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-61241/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-61241/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-16904-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-16904-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 61501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16904-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-16904-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-16904-1

Client Sample ID: MW-1

Date Collected: 07/13/22 11:05

Date Received: 07/13/22 15:09

Lab Sample ID: 880-16904-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	60912	07/14/22 18:51	T1S	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/15/22 11:49	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			60941	07/14/22 14:19	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	60905	07/14/22 19:42	T1S	XEN STF
Total/NA	Analysis	300.0		1	60934	07/14/22 23:14	WP	XEN STF
Total/NA	Analysis	300.0		1	60935	07/14/22 23:14	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	61196	07/15/22 12:26	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	61501	07/19/22 08:59	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	61002	07/14/22 15:30	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	61241	07/15/22 17:42	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 07/13/22 12:25

Date Received: 07/13/22 15:09

Lab Sample ID: 880-16904-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	60912	07/14/22 19:11	T1S	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/15/22 11:49	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			60941	07/14/22 14:19	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	60905	07/14/22 20:02	T1S	XEN STF
Total/NA	Analysis	300.0		1	60934	07/14/22 23:50	WP	XEN STF
Total/NA	Analysis	300.0		1	60935	07/14/22 23:50	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	61196	07/15/22 12:42	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	61501	07/19/22 08:59	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	61002	07/14/22 15:33	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	61241	07/15/22 17:43	YGG	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-16904-1

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	T104704215-22-46	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: 880-16904-1

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

Protocol References:

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

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

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

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-16904-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16904-1	MW-1	Water	07/13/22 11:05	07/13/22 15:09
880-16904-2	MW-2	Water	07/13/22 12:25	07/13/22 15:09

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16904-1

Login Number: 16904

List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-16904-1

Login Number: 16904

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 07/14/22 01:59 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-17182-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

7/25/2022 12:17:03 PM

Jessica Kramer, Project Manager

(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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

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

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

Laboratory Job ID: 880-17182-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-17182-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

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

Job ID: 880-17182-1
SDG: Hobbs NM

Job ID: 880-17182-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-17182-1

Receipt

The sample was received on 7/20/2022 3:36 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 860-61929 were outside control limits: (880-17186-B-1), (880-17186-B-1 MS) and (880-17186-B-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-61930 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of Calcium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-62035 and analytical batch 860-62141 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-17182-1

Date Collected: 07/20/22 11:15

Matrix: Water

Date Received: 07/20/22 15:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00431		0.00100	0.000214	mg/L		07/21/22 15:25	1
Bromobenzene	<0.000300	U	0.00100	0.000300	mg/L		07/21/22 15:25	1
Bromochloromethane	<0.000209	U	0.00100	0.000209	mg/L		07/21/22 15:25	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231	mg/L		07/21/22 15:25	1
Bromoform	<0.000630	U	0.00500	0.000630	mg/L		07/21/22 15:25	1
Bromomethane	<0.00105	U	0.00500	0.00105	mg/L		07/21/22 15:25	1
2-Butanone	<0.00270	U	0.0500	0.00270	mg/L		07/21/22 15:25	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423	mg/L		07/21/22 15:25	1
Chlorobenzene	<0.000159	U	0.00100	0.000159	mg/L		07/21/22 15:25	1
Chloroethane	<0.000433	U	0.0100	0.000433	mg/L		07/21/22 15:25	1
Chloroform	<0.000259	U	0.00100	0.000259	mg/L		07/21/22 15:25	1
Chloromethane	<0.000318	U	0.0100	0.000318	mg/L		07/21/22 15:25	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214	mg/L		07/21/22 15:25	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183	mg/L		07/21/22 15:25	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174	mg/L		07/21/22 15:25	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690	mg/L		07/21/22 15:25	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739	mg/L		07/21/22 15:25	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319	mg/L		07/21/22 15:25	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337	mg/L		07/21/22 15:25	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236	mg/L		07/21/22 15:25	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197	mg/L		07/21/22 15:25	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199	mg/L		07/21/22 15:25	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316	mg/L		07/21/22 15:25	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244	mg/L		07/21/22 15:25	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285	mg/L		07/21/22 15:25	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216	mg/L		07/21/22 15:25	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396	mg/L		07/21/22 15:25	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439	mg/L		07/21/22 15:25	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360	mg/L		07/21/22 15:25	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481	mg/L		07/21/22 15:25	1
Ethylbenzene	0.0166		0.00100	0.000515	mg/L		07/21/22 15:25	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200	mg/L		07/21/22 15:25	1
Isopropylbenzene	0.00764		0.00100	0.000161	mg/L		07/21/22 15:25	1
Methylene Chloride	<0.00191	U	0.00500	0.00191	mg/L		07/21/22 15:25	1
m,p-Xylenes	0.0692		0.0100	0.000330	mg/L		07/21/22 15:25	1
MTBE	<0.000571	U	0.00500	0.000571	mg/L		07/21/22 15:25	1
Naphthalene	<0.00200	U	0.0100	0.00200	mg/L		07/21/22 15:25	1
n-Butylbenzene	0.000557	J	0.00100	0.000286	mg/L		07/21/22 15:25	1
N-Propylbenzene	0.00360		0.00100	0.000179	mg/L		07/21/22 15:25	1
o-Xylene	0.0107		0.00100	0.000192	mg/L		07/21/22 15:25	1
p-Cymene (p-Isopropyltoluene)	0.000703	J	0.00100	0.000233	mg/L		07/21/22 15:25	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199	mg/L		07/21/22 15:25	1
Styrene	<0.000623	U	0.00100	0.000623	mg/L		07/21/22 15:25	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195	mg/L		07/21/22 15:25	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327	mg/L		07/21/22 15:25	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284	mg/L		07/21/22 15:25	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500	mg/L		07/21/22 15:25	1
Toluene	0.0348		0.00100	0.000500	mg/L		07/21/22 15:25	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256	mg/L		07/21/22 15:25	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-17182-1

Date Collected: 07/20/22 11:15

Matrix: Water

Date Received: 07/20/22 15:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/21/22 15:25	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 15:25	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 15:25	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/21/22 15:25	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/21/22 15:25	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/21/22 15:25	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/21/22 15:25	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/21/22 15:25	1
1,2,4-Trimethylbenzene	0.0179		0.00100	0.000252 mg/L			07/21/22 15:25	1
1,3,5-Trimethylbenzene	0.00557		0.00100	0.000279 mg/L			07/21/22 15:25	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/21/22 15:25	1
Xylenes, Total	0.0799		0.0100	0.000330 mg/L			07/21/22 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		07/21/22 15:25	1
Dibromofluoromethane (Surr)	110		75 - 131		07/21/22 15:25	1
1,2-Dichloroethane-d4 (Surr)	114		63 - 144		07/21/22 15:25	1
Toluene-d8 (Surr)	107		80 - 117		07/21/22 15:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.468	J	0.500	0.0711 mg/L			07/21/22 16:59	1
Nitrate as N	0.0538	J	0.100	0.0391 mg/L			07/21/22 16:59	1
Chloride	207		0.500	0.200 mg/L			07/21/22 16:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/21/22 16:59	1
Fluoride	0.383	J	0.500	0.100 mg/L			07/21/22 16:59	1
Sulfate	47.5		0.500	0.109 mg/L			07/21/22 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	251		10.0	5.76 mg/L		07/22/22 09:15	07/22/22 14:53	50
Magnesium	51.8		0.200	0.0428 mg/L		07/22/22 09:15	07/22/22 14:35	1
Potassium	4.12		0.500	0.0914 mg/L		07/22/22 09:15	07/22/22 14:35	1
Sodium	77.2		0.500	0.152 mg/L		07/22/22 09:15	07/22/22 14:35	1
SiO2	64.6		1.07	0.471 mg/L		07/22/22 09:15	07/22/22 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-8.12			%			07/22/22 17:31	1
Alkalinity	742		4.00	4.00 mg/L			07/22/22 12:20	1
Bicarbonate Alkalinity as CaCO3	742		4.00	4.00 mg/L			07/22/22 12:20	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/22/22 12:20	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/22/22 12:20	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/22/22 12:20	1
Total Dissolved Solids	1170		10.0	10.0 mg/L			07/21/22 15:16	1
pH	6.4	HF		SU			07/22/22 13:01	1
Temperature	19.3	HF		Degrees C			07/22/22 13:01	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-29881-B-1 MS	Matrix Spike	101	102	99	102
860-29881-B-1 MSD	Matrix Spike Duplicate	102	102	96	99
880-17182-1	Levey Well	104	110	114	107
LCS 860-61843/3	Lab Control Sample	100	105	105	98
LCSD 860-61843/4	Lab Control Sample Dup	101	99	100	100
MB 860-61843/10	Method Blank	102	104	104	102

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

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QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-61843/10

Matrix: Water

Analysis Batch: 61843

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 10:17	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/21/22 10:17	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/21/22 10:17	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/21/22 10:17	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/21/22 10:17	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/21/22 10:17	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/21/22 10:17	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/21/22 10:17	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/21/22 10:17	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/21/22 10:17	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/21/22 10:17	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/21/22 10:17	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 10:17	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/21/22 10:17	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/21/22 10:17	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/21/22 10:17	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/21/22 10:17	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/21/22 10:17	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/21/22 10:17	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/21/22 10:17	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/21/22 10:17	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 10:17	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/21/22 10:17	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/21/22 10:17	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/21/22 10:17	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/21/22 10:17	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/21/22 10:17	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/21/22 10:17	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/21/22 10:17	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/21/22 10:17	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/21/22 10:17	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 10:17	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/21/22 10:17	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/21/22 10:17	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/21/22 10:17	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/21/22 10:17	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/21/22 10:17	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/21/22 10:17	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/21/22 10:17	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/21/22 10:17	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/21/22 10:17	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 10:17	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/21/22 10:17	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/21/22 10:17	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/21/22 10:17	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/21/22 10:17	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 10:17	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 10:17	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-61843/10

Matrix: Water

Analysis Batch: 61843

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/21/22 10:17	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/21/22 10:17	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 10:17	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 10:17	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/21/22 10:17	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/21/22 10:17	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/21/22 10:17	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/21/22 10:17	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/21/22 10:17	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/21/22 10:17	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/21/22 10:17	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/21/22 10:17	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/21/22 10:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/21/22 10:17	1
Dibromofluoromethane (Surr)	104		75 - 131		07/21/22 10:17	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		07/21/22 10:17	1
Toluene-d8 (Surr)	102		80 - 117		07/21/22 10:17	1

Lab Sample ID: LCS 860-61843/3

Matrix: Water

Analysis Batch: 61843

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	0.05041		mg/L		101	66 - 142
Bromobenzene	0.0500	0.04759		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.05394		mg/L		108	60 - 140
Bromodichloromethane	0.0500	0.05193		mg/L		104	75 - 125
Bromoform	0.0500	0.04472		mg/L		89	75 - 125
Bromomethane	0.0500	0.05980		mg/L		120	60 - 140
2-Butanone	0.250	0.2679		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.05408		mg/L		108	62 - 125
Chlorobenzene	0.0500	0.04798		mg/L		96	60 - 133
Chloroethane	0.0500	0.06098		mg/L		122	60 - 140
Chloroform	0.0500	0.05148		mg/L		103	70 - 130
Chloromethane	0.0500	0.04777		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.04956		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04874		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05324		mg/L		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05445		mg/L		109	74 - 125
Dibromochloromethane	0.0500	0.05032		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04448		mg/L		89	59 - 125
1,2-Dibromoethane	0.0500	0.04955		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04862		mg/L		97	75 - 125
1,3-Dichlorobenzene	0.0500	0.04796		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04702		mg/L		94	75 - 125
Dichlorodifluoromethane	0.0500	0.04777		mg/L		96	70 - 130

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QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-61843/3

Matrix: Water

Analysis Batch: 61843

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	0.05105		mg/L		102	72 - 125
1,2-Dichloroethane	0.0500	0.05207		mg/L		104	68 - 127
1,1-Dichloroethene	0.0500	0.05407		mg/L		108	59 - 172
1,2-Dichloropropane	0.0500	0.05114		mg/L		102	74 - 125
1,3-Dichloropropane	0.0500	0.05040		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05695		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05278		mg/L		106	75 - 125
Ethylbenzene	0.0500	0.05032		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04974		mg/L		99	75 - 125
Isopropylbenzene	0.0500	0.05310		mg/L		106	75 - 125
Methylene Chloride	0.0500	0.05198		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.05067		mg/L		101	75 - 125
MTBE	0.0500	0.05266		mg/L		105	65 - 135
Naphthalene	0.0500	0.05461		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.05390		mg/L		108	75 - 125
N-Propylbenzene	0.0500	0.05043		mg/L		101	75 - 125
o-Xylene	0.0500	0.05228		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05224		mg/L		104	75 - 125
sec-Butylbenzene	0.0500	0.05182		mg/L		104	75 - 125
Styrene	0.0500	0.05276		mg/L		106	75 - 125
tert-Butylbenzene	0.0500	0.05191		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04930		mg/L		99	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04552		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.05042		mg/L		101	71 - 125
Toluene	0.0500	0.04855		mg/L		97	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05278		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05365		mg/L		107	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05192		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05177		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05420		mg/L		108	75 - 125
1,1,2-Trichloroethane	0.0500	0.04965		mg/L		99	75 - 127
Trichloroethene	0.0500	0.05057		mg/L		101	62 - 137
Trichlorofluoromethane	0.0500	0.05772		mg/L		115	60 - 140
1,2,3-Trichloropropane	0.0500	0.04769		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05139		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05023		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.05494		mg/L		110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	98		80 - 117

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-61843/4

Matrix: Water

Analysis Batch: 61843

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	0.04901		mg/L		98	66 - 142	3	25
Bromobenzene	0.0500	0.04854		mg/L		97	75 - 125	2	25
Bromochloromethane	0.0500	0.04955		mg/L		99	60 - 140	8	25
Bromodichloromethane	0.0500	0.05007		mg/L		100	75 - 125	4	25
Bromoform	0.0500	0.04490		mg/L		90	75 - 125	0	25
Bromomethane	0.0500	0.04834		mg/L		97	60 - 140	21	25
2-Butanone	0.250	0.2619		mg/L		105	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04726		mg/L		95	62 - 125	13	25
Chlorobenzene	0.0500	0.04734		mg/L		95	60 - 133	1	25
Chloroethane	0.0500	0.05473		mg/L		109	60 - 140	11	25
Chloroform	0.0500	0.04878		mg/L		98	70 - 130	5	25
Chloromethane	0.0500	0.04489		mg/L		90	60 - 140	6	25
2-Chlorotoluene	0.0500	0.04964		mg/L		99	73 - 125	0	25
4-Chlorotoluene	0.0500	0.04934		mg/L		99	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04867		mg/L		97	75 - 125	9	25
cis-1,3-Dichloropropene	0.0500	0.05216		mg/L		104	74 - 125	4	25
Dibromochloromethane	0.0500	0.04988		mg/L		100	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04845		mg/L		97	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04999		mg/L		100	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05004		mg/L		100	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04899		mg/L		98	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04833		mg/L		97	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04303		mg/L		86	70 - 130	10	25
1,1-Dichloroethane	0.0500	0.04885		mg/L		98	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.05103		mg/L		102	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04992		mg/L		100	59 - 172	8	25
1,2-Dichloropropane	0.0500	0.04948		mg/L		99	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04945		mg/L		99	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05215		mg/L		104	75 - 125	9	25
1,1-Dichloropropene	0.0500	0.04706		mg/L		94	75 - 125	11	25
Ethylbenzene	0.0500	0.04872		mg/L		97	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05268		mg/L		105	75 - 125	6	25
Isopropylbenzene	0.0500	0.05163		mg/L		103	75 - 125	3	25
Methylene Chloride	0.0500	0.04714		mg/L		94	75 - 125	10	25
m,p-Xylenes	0.0500	0.04960		mg/L		99	75 - 125	2	25
MTBE	0.0500	0.05257		mg/L		105	65 - 135	0	25
Naphthalene	0.0500	0.05883		mg/L		118	70 - 130	7	25
n-Butylbenzene	0.0500	0.05499		mg/L		110	75 - 125	2	25
N-Propylbenzene	0.0500	0.05110		mg/L		102	75 - 125	1	25
o-Xylene	0.0500	0.05119		mg/L		102	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05397		mg/L		108	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05204		mg/L		104	75 - 125	0	25
Styrene	0.0500	0.05189		mg/L		104	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05239		mg/L		105	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04866		mg/L		97	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04790		mg/L		96	74 - 125	5	25
Tetrachloroethene	0.0500	0.04938		mg/L		99	71 - 125	2	25
Toluene	0.0500	0.04741		mg/L		95	59 - 139	2	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-61843/4

Matrix: Water

Analysis Batch: 61843

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	0.04865		mg/L		97	75 - 125	8	25
trans-1,3-Dichloropropene	0.0500	0.05329		mg/L		107	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.05561		mg/L		111	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05317		mg/L		106	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04888		mg/L		98	75 - 125	10	25
1,1,2-Trichloroethane	0.0500	0.04997		mg/L		100	75 - 127	1	25
Trichloroethene	0.0500	0.04897		mg/L		98	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05102		mg/L		102	60 - 140	12	25
1,2,3-Trichloropropane	0.0500	0.04935		mg/L		99	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.05203		mg/L		104	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05110		mg/L		102	60 - 140	2	25
Vinyl chloride	0.0500	0.04829		mg/L		97	60 - 140	13	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-61929/3

Matrix: Water

Analysis Batch: 61929

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			07/21/22 13:50	1
Chloride	<0.200	U	0.500	0.200 mg/L			07/21/22 13:50	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/21/22 13:50	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/21/22 13:50	1

Lab Sample ID: LCS 860-61929/6

Matrix: Water

Analysis Batch: 61929

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	9.974		mg/L		100	90 - 110
Chloride	10.0	9.637		mg/L		96	90 - 110
Fluoride	10.0	10.06		mg/L		101	90 - 110
Sulfate	10.0	10.17		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-61929/7

Matrix: Water

Analysis Batch: 61929

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	9.963		mg/L		100	90 - 110	0	20
Chloride	10.0	9.581		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.05		mg/L		100	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-61929/7

Matrix: Water

Analysis Batch: 61929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	10.14		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-61929/5

Matrix: Water

Analysis Batch: 61929

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	0.5534		mg/L		111	50 - 150		
Chloride	0.500	0.5811		mg/L		116	50 - 150		
Fluoride	0.500	0.4837	J	mg/L		97	50 - 150		
Sulfate	0.500	0.5605		mg/L		112	50 - 150		

Lab Sample ID: MB 860-61930/3

Matrix: Water

Analysis Batch: 61930

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			07/21/22 13:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/21/22 13:50	1

Lab Sample ID: LCS 860-61930/6

Matrix: Water

Analysis Batch: 61930

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	9.556		mg/L		96	80 - 120		
Nitrite as N	5.00	4.913		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-61930/7

Matrix: Water

Analysis Batch: 61930

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	9.561		mg/L		96	80 - 120	0	20
Nitrite as N	5.00	4.921		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-61930/4

Matrix: Water

Analysis Batch: 61930

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	0.1184		mg/L		118	50 - 150		
Nitrite as N	0.100	0.1152		mg/L		115	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-62035/1-A

Matrix: Water

Analysis Batch: 62141

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 62035

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		07/22/22 09:15	07/22/22 13:57	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/22/22 09:15	07/22/22 13:57	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/22/22 09:15	07/22/22 13:57	1
Sodium	<0.152	U	0.500	0.152 mg/L		07/22/22 09:15	07/22/22 13:57	1
SiO2	<0.471	U	1.07	0.471 mg/L		07/22/22 09:15	07/22/22 13:57	1

Lab Sample ID: LCS 860-62035/2-A

Matrix: Water

Analysis Batch: 62141

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 62035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.12		mg/L		96	85 - 115
Magnesium	25.0	23.88		mg/L		96	85 - 115
Potassium	10.0	9.669		mg/L		97	85 - 115
Sodium	25.0	24.08		mg/L		96	85 - 115
SiO2	21.4	20.58		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-62035/3-A

Matrix: Water

Analysis Batch: 62141

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 62035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.09		mg/L		96	85 - 115	0	20
Magnesium	25.0	23.89		mg/L		96	85 - 115	0	20
Potassium	10.0	9.717		mg/L		97	85 - 115	0	20
Sodium	25.0	24.06		mg/L		96	85 - 115	0	20
SiO2	21.4	20.65		mg/L		96	85 - 115	0	20

Lab Sample ID: LLCS 860-62035/4-A

Matrix: Water

Analysis Batch: 62141

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 62035

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2432		mg/L		122	50 - 150
Magnesium	0.200	0.2092		mg/L		105	50 - 150
Potassium	0.500	0.5675		mg/L		113	50 - 150
Sodium	0.500	0.4127	J	mg/L		83	50 - 150
SiO2	1.07	1.067	J	mg/L		100	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-62145/4

Matrix: Water

Analysis Batch: 62145

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			07/22/22 11:50	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/22/22 11:50	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/22/22 11:50	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/22/22 11:50	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-62145/4

Matrix: Water

Analysis Batch: 62145

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/22/22 11:50	1

Lab Sample ID: LCS 860-62145/5

Matrix: Water

Analysis Batch: 62145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 860-62145/6

Matrix: Water

Analysis Batch: 62145

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	257.2		mg/L		103	85 - 115	2	20

Lab Sample ID: 880-17182-1 DU

Matrix: Water

Analysis Batch: 62145

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	742		742.2		mg/L		0.06	20
Bicarbonate Alkalinity as CaCO3	742		742.2		mg/L		0.06	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-61963/1

Matrix: Water

Analysis Batch: 61963

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			07/21/22 15:16	1

Lab Sample ID: LCS 860-61963/2

Matrix: Water

Analysis Batch: 61963

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	990.0		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-61963/3

Matrix: Water

Analysis Batch: 61963

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	997.0		mg/L		100	80 - 120	1	10

Eurofins Midland

QC Sample Results

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

Job ID: 880-17182-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-61963/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 61963									
				Spike	LLCS	LLCS			%Rec
Analyte				Added	Result	Qualifier	Unit	D	%Rec
Total Dissolved Solids				5.00	7.000		mg/L		140
									50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-17182-1 DU							Client Sample ID: Levey Well			
Matrix: Water							Prep Type: Total/NA			
Analysis Batch: 62092										
	Sample	Sample		DU	DU					RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D		RPD	Limit
pH	6.4	HF		6.4		SU			0.5	20
Temperature	19.3	HF		19.5		Degrees C			1	20

QC Association Summary

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

Job ID: 880-17182-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 61843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	8260C	
MB 860-61843/10	Method Blank	Total/NA	Water	8260C	
LCS 860-61843/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-61843/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 61929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	300.0	
MB 860-61929/3	Method Blank	Total/NA	Water	300.0	
LCS 860-61929/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-61929/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-61929/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 61930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	300.0	
MB 860-61930/3	Method Blank	Total/NA	Water	300.0	
LCS 860-61930/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-61930/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-61930/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 62035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-62035/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-62035/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-62035/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-62035/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 62141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	62035
880-17182-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	62035
MB 860-62035/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	62035
LCS 860-62035/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	62035
LCSD 860-62035/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	62035
LLCS 860-62035/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	62035

General Chemistry

Analysis Batch: 61963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-61963/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-61963/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-61963/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-61963/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-17182-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 62092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-17182-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 62145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-62145/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-62145/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-62145/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-17182-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 62161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17182-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-17182-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 07/20/22 11:15
Date Received: 07/20/22 15:36

Lab Sample ID: 880-17182-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	61843	07/21/22 15:25	AN	XEN STF
Total/NA	Analysis	300.0		1	61929	07/21/22 16:59	WP	XEN STF
Total/NA	Analysis	300.0		1	61930	07/21/22 16:59	WP	XEN STF
Total Recoverable	Prep	200.7			62035	07/22/22 09:15	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1	62141	07/22/22 14:35	DP	XEN STF
Total Recoverable	Prep	200.7			62035	07/22/22 09:15	MD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50	62141	07/22/22 14:53	DP	XEN STF
Total/NA	Analysis	SM 1030E		1	62161	07/22/22 17:31	AA	XEN STF
Total/NA	Analysis	SM 2320B		1	62145	07/22/22 12:20	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	61963	07/21/22 15:16	MCA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	62092	07/22/22 13:01	TL	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-17182-1
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: 880-17182-1
SDG: Hobbs NM

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

Protocol References:

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

Laboratory References:

- XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-17182-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17182-1	Levey Well	Water	07/20/22 11:15	07/20/22 15:36

- 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: 17182

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

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

Project Name:	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):	5.65.8	Thermometer ID					
Received Intact:	Yes	No	Correction Factor:				
Cooler Custody Seals:	Yes	No	Total Containers:				
Sample Custody Seals	Yes	No					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS	Sample Comments
Levey Well	GW	7-20-22	1115		7	X	X	X	X	X	X	24 Hr

CUSTODY SEAL
Date 7-20-22
Signature [Signature]

Thermo
SCIENTIFIC

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	7/20/22	[Signature]	[Signature]	1536

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-17182-1

SDG Number: Hobbs NM

Login Number: 17182

List Number: 1

List Source: Eurofins Midland

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: 880-17182-1

SDG Number: Hobbs NM

Login Number: 17182

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 07/21/22 01:45 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-17183-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Authorized for release by:

7/26/2022 4:10:33 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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

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

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

Laboratory Job ID: 880-17183-1

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Definitions/Glossary

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

Job ID: 880-17183-1

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.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

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

Job ID: 880-17183-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

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

Job ID: 880-17183-1

Job ID: 880-17183-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-17183-1

Receipt

The samples were received on 7/20/2022 3:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC/MS VOA

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 the following sample associated with analytical batch 860-61929 were outside control limits: MW-1 (880-17183-1), (880-17183-H-1 MS) and (880-17183-H-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-61930 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-17183-1

Date Collected: 07/20/22 12:00

Matrix: Water

Date Received: 07/20/22 15:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 15:44	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/21/22 15:44	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/21/22 15:44	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/21/22 15:44	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/21/22 15:44	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/21/22 15:44	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/21/22 15:44	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/21/22 15:44	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/21/22 15:44	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/21/22 15:44	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/21/22 15:44	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/21/22 15:44	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 15:44	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/21/22 15:44	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/21/22 15:44	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/21/22 15:44	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/21/22 15:44	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/21/22 15:44	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/21/22 15:44	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/21/22 15:44	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/21/22 15:44	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 15:44	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/21/22 15:44	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/21/22 15:44	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/21/22 15:44	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/21/22 15:44	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/21/22 15:44	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/21/22 15:44	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/21/22 15:44	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/21/22 15:44	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/21/22 15:44	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 15:44	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/21/22 15:44	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/21/22 15:44	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/21/22 15:44	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/21/22 15:44	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/21/22 15:44	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/21/22 15:44	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/21/22 15:44	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/21/22 15:44	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/21/22 15:44	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 15:44	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/21/22 15:44	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/21/22 15:44	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/21/22 15:44	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/21/22 15:44	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 15:44	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 15:44	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/21/22 15:44	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-17183-1

Client Sample ID: MW-1

Lab Sample ID: 880-17183-1

Date Collected: 07/20/22 12:00

Matrix: Water

Date Received: 07/20/22 15:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/21/22 15:44	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 15:44	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 15:44	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/21/22 15:44	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/21/22 15:44	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/21/22 15:44	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/21/22 15:44	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/21/22 15:44	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/21/22 15:44	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/21/22 15:44	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/21/22 15:44	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/21/22 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		74 - 124		07/21/22 15:44	1
4-Bromofluorobenzene (Surr)	109		74 - 124		07/21/22 16:03	5
Dibromofluoromethane (Surr)	113		75 - 131		07/21/22 15:44	1
Dibromofluoromethane (Surr)	116		75 - 131		07/21/22 16:03	5
1,2-Dichloroethane-d4 (Surr)	119		63 - 144		07/21/22 15:44	1
1,2-Dichloroethane-d4 (Surr)	123		63 - 144		07/21/22 16:03	5
Toluene-d8 (Surr)	104		80 - 117		07/21/22 15:44	1
Toluene-d8 (Surr)	106		80 - 117		07/21/22 16:03	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.959	U	4.85	0.959 mg/L			07/22/22 17:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.959	U	4.85	0.959 mg/L		07/21/22 15:42	07/21/22 18:10	1
Diesel Range Organics (Over C10-C28)	<0.959	U	4.85	0.959 mg/L		07/21/22 15:42	07/21/22 18:10	1
Oil Range Organics (Over C28-C36)	<0.926	U	4.85	0.926 mg/L		07/21/22 15:42	07/21/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	07/21/22 15:42	07/21/22 18:10	1
o-Terphenyl	100		70 - 135	07/21/22 15:42	07/21/22 18:10	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.5		0.500	0.200 mg/L			07/21/22 17:11	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/21/22 17:11	1
Fluoride	0.766		0.500	0.100 mg/L			07/21/22 17:11	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			07/21/22 17:11	1
Sulfate	48.5	F2	0.500	0.109 mg/L			07/21/22 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	249		4.00	4.00 mg/L			07/22/22 12:41	1
Bicarbonate Alkalinity as CaCO3	249		4.00	4.00 mg/L			07/22/22 12:41	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-17183-1

Date Collected: 07/20/22 12:00

Matrix: Water

Date Received: 07/20/22 15:36

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/22/22 12:41	1
Carbon dioxide	250			mg/L			07/26/22 15:54	1
Carbon Dioxide, Free	31.4			mg/L			07/26/22 15:54	1
pH	7.2	HF		SU			07/22/22 13:04	1
Temperature	20.0	HF		Degrees C			07/22/22 13:04	1
Sulfide	<0.495	U	5.00	0.495 mg/L			07/21/22 18:23	1

Client Sample ID: MW-2

Lab Sample ID: 880-17183-2

Date Collected: 07/20/22 13:10

Matrix: Water

Date Received: 07/20/22 15:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0210		0.00100	0.000214 mg/L			07/21/22 16:22	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/21/22 16:22	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/21/22 16:22	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/21/22 16:22	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/21/22 16:22	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/21/22 16:22	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/21/22 16:22	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/21/22 16:22	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/21/22 16:22	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/21/22 16:22	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/21/22 16:22	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/21/22 16:22	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 16:22	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/21/22 16:22	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/21/22 16:22	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/21/22 16:22	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/21/22 16:22	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/21/22 16:22	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/21/22 16:22	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/21/22 16:22	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/21/22 16:22	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 16:22	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/21/22 16:22	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/21/22 16:22	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/21/22 16:22	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/21/22 16:22	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/21/22 16:22	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/21/22 16:22	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/21/22 16:22	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/21/22 16:22	1
Ethylbenzene	0.0220		0.00100	0.000515 mg/L			07/21/22 16:22	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 16:22	1
Isopropylbenzene	0.00757		0.00100	0.000161 mg/L			07/21/22 16:22	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/21/22 16:22	1
m,p-Xylenes	0.101		0.0100	0.000330 mg/L			07/21/22 16:22	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/21/22 16:22	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/21/22 16:22	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-17183-2

Date Collected: 07/20/22 13:10

Matrix: Water

Date Received: 07/20/22 15:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/21/22 16:22	1
N-Propylbenzene	0.00242		0.00100	0.000179 mg/L			07/21/22 16:22	1
o-Xylene	0.0117		0.00100	0.000192 mg/L			07/21/22 16:22	1
p-Cymene (p-Isopropyltoluene)	0.000601	J	0.00100	0.000233 mg/L			07/21/22 16:22	1
sec-Butylbenzene	0.000916	J	0.00100	0.000199 mg/L			07/21/22 16:22	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/21/22 16:22	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/21/22 16:22	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/21/22 16:22	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/21/22 16:22	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 16:22	1
Toluene	0.00346		0.00100	0.000500 mg/L			07/21/22 16:22	1
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/21/22 16:22	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/21/22 16:22	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 16:22	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 16:22	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/21/22 16:22	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/21/22 16:22	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/21/22 16:22	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/21/22 16:22	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/21/22 16:22	1
1,2,4-Trimethylbenzene	0.0293		0.00100	0.000252 mg/L			07/21/22 16:22	1
1,3,5-Trimethylbenzene	0.00720		0.00100	0.000279 mg/L			07/21/22 16:22	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/21/22 16:22	1
Xylenes, Total	0.113		0.0100	0.000330 mg/L			07/21/22 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		07/21/22 16:22	1
Dibromofluoromethane (Surr)	106		75 - 131		07/21/22 16:22	1
1,2-Dichloroethane-d4 (Surr)	125		63 - 144		07/21/22 16:22	1
Toluene-d8 (Surr)	105		80 - 117		07/21/22 16:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.07	J	4.97	0.981 mg/L			07/22/22 11:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.07	J	4.97	0.981 mg/L		07/21/22 15:42	07/22/22 16:27	1
Diesel Range Organics (Over C10-C28)	<0.981	U	4.97	0.981 mg/L		07/21/22 15:42	07/22/22 16:27	1
Oil Range Organics (Over C28-C36)	<0.947	U	4.97	0.947 mg/L		07/21/22 15:42	07/22/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135			07/21/22 15:42	07/22/22 16:27	1
o-Terphenyl	77		70 - 135			07/21/22 15:42	07/22/22 16:27	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		0.500	0.200 mg/L			07/21/22 17:47	1
Nitrate as N	0.485		0.100	0.0391 mg/L			07/21/22 17:47	1

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Client Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-17183-1

Client Sample ID: MW-2

Date Collected: 07/20/22 13:10

Date Received: 07/20/22 15:36

Lab Sample ID: 880-17183-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.100	U	0.500	0.100	mg/L			07/21/22 17:47	1
Nitrite as N	1.46		0.100	0.0293	mg/L			07/21/22 17:47	1
Sulfate	122		0.500	0.109	mg/L			07/21/22 17:47	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1360		4.00	4.00	mg/L			07/22/22 12:57	1
Bicarbonate Alkalinity as CaCO3	1360		4.00	4.00	mg/L			07/22/22 12:57	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/22/22 12:57	1
Carbon dioxide	2560				mg/L			07/26/22 15:54	1
Carbon Dioxide, Free	1360				mg/L			07/26/22 15:54	1
pH	6.3	HF			SU			07/22/22 13:06	1
Temperature	19.8	HF			Degrees C			07/22/22 13:06	1
Sulfide	1.00	J	5.00	0.495	mg/L			07/21/22 18:23	1

Surrogate Summary

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-29881-B-1 MS	Matrix Spike	101	102	99	102
860-29881-B-1 MSD	Matrix Spike Duplicate	102	102	96	99
880-17183-1	MW-1	109	113	119	104
880-17183-1	MW-1	109	116	123	106
880-17183-2	MW-2	106	106	125	105
LCS 860-61843/3	Lab Control Sample	100	105	105	98
LCSD 860-61843/4	Lab Control Sample Dup	101	99	100	100
MB 860-61843/10	Method Blank	102	104	104	102
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-17183-1	MW-1	107	100
880-17183-2 - RA	MW-2	89	77
LCS 860-61904/2-A	Lab Control Sample	124	113
LCSD 860-61904/3-A	Lab Control Sample Dup	127	114
MB 860-61904/1-A	Method Blank	110	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-61843/10

Matrix: Water

Analysis Batch: 61843

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 10:17	1
Bromobenzene	<0.000300	U	0.00100	0.000300 mg/L			07/21/22 10:17	1
Bromochloromethane	<0.000209	U	0.00100	0.000209 mg/L			07/21/22 10:17	1
Bromodichloromethane	<0.000231	U	0.00100	0.000231 mg/L			07/21/22 10:17	1
Bromoform	<0.000630	U	0.00500	0.000630 mg/L			07/21/22 10:17	1
Bromomethane	<0.00105	U	0.00500	0.00105 mg/L			07/21/22 10:17	1
2-Butanone	<0.00270	U	0.0500	0.00270 mg/L			07/21/22 10:17	1
Carbon tetrachloride	<0.000423	U	0.00500	0.000423 mg/L			07/21/22 10:17	1
Chlorobenzene	<0.000159	U	0.00100	0.000159 mg/L			07/21/22 10:17	1
Chloroethane	<0.000433	U	0.0100	0.000433 mg/L			07/21/22 10:17	1
Chloroform	<0.000259	U	0.00100	0.000259 mg/L			07/21/22 10:17	1
Chloromethane	<0.000318	U	0.0100	0.000318 mg/L			07/21/22 10:17	1
2-Chlorotoluene	<0.000214	U	0.00100	0.000214 mg/L			07/21/22 10:17	1
4-Chlorotoluene	<0.000183	U	0.00100	0.000183 mg/L			07/21/22 10:17	1
cis-1,2-Dichloroethene	<0.000174	U	0.00100	0.000174 mg/L			07/21/22 10:17	1
cis-1,3-Dichloropropene	<0.000690	U	0.00500	0.000690 mg/L			07/21/22 10:17	1
Dibromochloromethane	<0.000739	U	0.00500	0.000739 mg/L			07/21/22 10:17	1
1,2-Dibromo-3-Chloropropane	<0.000319	U	0.00500	0.000319 mg/L			07/21/22 10:17	1
1,2-Dibromoethane	<0.000337	U	0.00500	0.000337 mg/L			07/21/22 10:17	1
1,2-Dichlorobenzene	<0.000236	U	0.00100	0.000236 mg/L			07/21/22 10:17	1
1,3-Dichlorobenzene	<0.000197	U	0.00100	0.000197 mg/L			07/21/22 10:17	1
1,4-Dichlorobenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 10:17	1
Dichlorodifluoromethane	<0.000316	U	0.00100	0.000316 mg/L			07/21/22 10:17	1
1,1-Dichloroethane	<0.000244	U	0.00100	0.000244 mg/L			07/21/22 10:17	1
1,2-Dichloroethane	<0.000285	U	0.00100	0.000285 mg/L			07/21/22 10:17	1
1,1-Dichloroethene	<0.000216	U	0.00100	0.000216 mg/L			07/21/22 10:17	1
1,2-Dichloropropane	<0.000396	U	0.00500	0.000396 mg/L			07/21/22 10:17	1
1,3-Dichloropropane	<0.000439	U	0.00500	0.000439 mg/L			07/21/22 10:17	1
2,2-Dichloropropane	<0.000360	U	0.00500	0.000360 mg/L			07/21/22 10:17	1
1,1-Dichloropropene	<0.000481	U	0.00500	0.000481 mg/L			07/21/22 10:17	1
Ethylbenzene	<0.000515	U	0.00100	0.000515 mg/L			07/21/22 10:17	1
Hexachlorobutadiene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 10:17	1
Isopropylbenzene	<0.000161	U	0.00100	0.000161 mg/L			07/21/22 10:17	1
Methylene Chloride	<0.00191	U	0.00500	0.00191 mg/L			07/21/22 10:17	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330 mg/L			07/21/22 10:17	1
MTBE	<0.000571	U	0.00500	0.000571 mg/L			07/21/22 10:17	1
Naphthalene	<0.00200	U	0.0100	0.00200 mg/L			07/21/22 10:17	1
n-Butylbenzene	<0.000286	U	0.00100	0.000286 mg/L			07/21/22 10:17	1
N-Propylbenzene	<0.000179	U	0.00100	0.000179 mg/L			07/21/22 10:17	1
o-Xylene	<0.000192	U	0.00100	0.000192 mg/L			07/21/22 10:17	1
p-Cymene (p-Isopropyltoluene)	<0.000233	U	0.00100	0.000233 mg/L			07/21/22 10:17	1
sec-Butylbenzene	<0.000199	U	0.00100	0.000199 mg/L			07/21/22 10:17	1
Styrene	<0.000623	U	0.00100	0.000623 mg/L			07/21/22 10:17	1
tert-Butylbenzene	<0.000195	U	0.00100	0.000195 mg/L			07/21/22 10:17	1
1,1,1,2-Tetrachloroethane	<0.000327	U	0.00100	0.000327 mg/L			07/21/22 10:17	1
1,1,2,2-Tetrachloroethane	<0.000284	U	0.00100	0.000284 mg/L			07/21/22 10:17	1
Tetrachloroethene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 10:17	1
Toluene	<0.000500	U	0.00100	0.000500 mg/L			07/21/22 10:17	1

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-61843/10

Matrix: Water

Analysis Batch: 61843

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000256	U	0.00100	0.000256 mg/L			07/21/22 10:17	1
trans-1,3-Dichloropropene	<0.000752	U	0.00500	0.000752 mg/L			07/21/22 10:17	1
1,2,3-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 10:17	1
1,2,4-Trichlorobenzene	<0.00200	U	0.00500	0.00200 mg/L			07/21/22 10:17	1
1,1,1-Trichloroethane	<0.000504	U	0.00500	0.000504 mg/L			07/21/22 10:17	1
1,1,2-Trichloroethane	<0.000228	U	0.00100	0.000228 mg/L			07/21/22 10:17	1
Trichloroethene	<0.000424	U	0.00500	0.000424 mg/L			07/21/22 10:17	1
Trichlorofluoromethane	<0.000245	U	0.00100	0.000245 mg/L			07/21/22 10:17	1
1,2,3-Trichloropropane	<0.000283	U	0.00100	0.000283 mg/L			07/21/22 10:17	1
1,2,4-Trimethylbenzene	<0.000252	U	0.00100	0.000252 mg/L			07/21/22 10:17	1
1,3,5-Trimethylbenzene	<0.000279	U	0.00100	0.000279 mg/L			07/21/22 10:17	1
Vinyl chloride	<0.000234	U	0.00200	0.000234 mg/L			07/21/22 10:17	1
Xylenes, Total	<0.000330	U	0.0100	0.000330 mg/L			07/21/22 10:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/21/22 10:17	1
Dibromofluoromethane (Surr)	104		75 - 131		07/21/22 10:17	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		07/21/22 10:17	1
Toluene-d8 (Surr)	102		80 - 117		07/21/22 10:17	1

Lab Sample ID: LCS 860-61843/3

Matrix: Water

Analysis Batch: 61843

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	0.05041		mg/L		101	66 - 142
Bromobenzene	0.0500	0.04759		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.05394		mg/L		108	60 - 140
Bromodichloromethane	0.0500	0.05193		mg/L		104	75 - 125
Bromoform	0.0500	0.04472		mg/L		89	75 - 125
Bromomethane	0.0500	0.05980		mg/L		120	60 - 140
2-Butanone	0.250	0.2679		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.05408		mg/L		108	62 - 125
Chlorobenzene	0.0500	0.04798		mg/L		96	60 - 133
Chloroethane	0.0500	0.06098		mg/L		122	60 - 140
Chloroform	0.0500	0.05148		mg/L		103	70 - 130
Chloromethane	0.0500	0.04777		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.04956		mg/L		99	73 - 125
4-Chlorotoluene	0.0500	0.04874		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05324		mg/L		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05445		mg/L		109	74 - 125
Dibromochloromethane	0.0500	0.05032		mg/L		101	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04448		mg/L		89	59 - 125
1,2-Dibromoethane	0.0500	0.04955		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.04862		mg/L		97	75 - 125
1,3-Dichlorobenzene	0.0500	0.04796		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04702		mg/L		94	75 - 125
Dichlorodifluoromethane	0.0500	0.04777		mg/L		96	70 - 130

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-61843/3

Matrix: Water

Analysis Batch: 61843

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	0.05105		mg/L		102	72 - 125
1,2-Dichloroethane	0.0500	0.05207		mg/L		104	68 - 127
1,1-Dichloroethene	0.0500	0.05407		mg/L		108	59 - 172
1,2-Dichloropropane	0.0500	0.05114		mg/L		102	74 - 125
1,3-Dichloropropane	0.0500	0.05040		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05695		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05278		mg/L		106	75 - 125
Ethylbenzene	0.0500	0.05032		mg/L		101	75 - 125
Hexachlorobutadiene	0.0500	0.04974		mg/L		99	75 - 125
Isopropylbenzene	0.0500	0.05310		mg/L		106	75 - 125
Methylene Chloride	0.0500	0.05198		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.05067		mg/L		101	75 - 125
MTBE	0.0500	0.05266		mg/L		105	65 - 135
Naphthalene	0.0500	0.05461		mg/L		109	70 - 130
n-Butylbenzene	0.0500	0.05390		mg/L		108	75 - 125
N-Propylbenzene	0.0500	0.05043		mg/L		101	75 - 125
o-Xylene	0.0500	0.05228		mg/L		105	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05224		mg/L		104	75 - 125
sec-Butylbenzene	0.0500	0.05182		mg/L		104	75 - 125
Styrene	0.0500	0.05276		mg/L		106	75 - 125
tert-Butylbenzene	0.0500	0.05191		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04930		mg/L		99	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04552		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.05042		mg/L		101	71 - 125
Toluene	0.0500	0.04855		mg/L		97	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05278		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05365		mg/L		107	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05192		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05177		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05420		mg/L		108	75 - 125
1,1,2-Trichloroethane	0.0500	0.04965		mg/L		99	75 - 127
Trichloroethene	0.0500	0.05057		mg/L		101	62 - 137
Trichlorofluoromethane	0.0500	0.05772		mg/L		115	60 - 140
1,2,3-Trichloropropane	0.0500	0.04769		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05139		mg/L		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05023		mg/L		100	60 - 140
Vinyl chloride	0.0500	0.05494		mg/L		110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
Toluene-d8 (Surr)	98		80 - 117

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-61843/4

Matrix: Water

Analysis Batch: 61843

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	0.04901		mg/L		98	66 - 142	3	25
Bromobenzene	0.0500	0.04854		mg/L		97	75 - 125	2	25
Bromochloromethane	0.0500	0.04955		mg/L		99	60 - 140	8	25
Bromodichloromethane	0.0500	0.05007		mg/L		100	75 - 125	4	25
Bromoform	0.0500	0.04490		mg/L		90	75 - 125	0	25
Bromomethane	0.0500	0.04834		mg/L		97	60 - 140	21	25
2-Butanone	0.250	0.2619		mg/L		105	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04726		mg/L		95	62 - 125	13	25
Chlorobenzene	0.0500	0.04734		mg/L		95	60 - 133	1	25
Chloroethane	0.0500	0.05473		mg/L		109	60 - 140	11	25
Chloroform	0.0500	0.04878		mg/L		98	70 - 130	5	25
Chloromethane	0.0500	0.04489		mg/L		90	60 - 140	6	25
2-Chlorotoluene	0.0500	0.04964		mg/L		99	73 - 125	0	25
4-Chlorotoluene	0.0500	0.04934		mg/L		99	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.04867		mg/L		97	75 - 125	9	25
cis-1,3-Dichloropropene	0.0500	0.05216		mg/L		104	74 - 125	4	25
Dibromochloromethane	0.0500	0.04988		mg/L		100	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04845		mg/L		97	59 - 125	9	25
1,2-Dibromoethane	0.0500	0.04999		mg/L		100	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05004		mg/L		100	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04899		mg/L		98	75 - 125	2	25
1,4-Dichlorobenzene	0.0500	0.04833		mg/L		97	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04303		mg/L		86	70 - 130	10	25
1,1-Dichloroethane	0.0500	0.04885		mg/L		98	72 - 125	4	25
1,2-Dichloroethane	0.0500	0.05103		mg/L		102	68 - 127	2	25
1,1-Dichloroethene	0.0500	0.04992		mg/L		100	59 - 172	8	25
1,2-Dichloropropane	0.0500	0.04948		mg/L		99	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04945		mg/L		99	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.05215		mg/L		104	75 - 125	9	25
1,1-Dichloropropene	0.0500	0.04706		mg/L		94	75 - 125	11	25
Ethylbenzene	0.0500	0.04872		mg/L		97	75 - 125	3	25
Hexachlorobutadiene	0.0500	0.05268		mg/L		105	75 - 125	6	25
Isopropylbenzene	0.0500	0.05163		mg/L		103	75 - 125	3	25
Methylene Chloride	0.0500	0.04714		mg/L		94	75 - 125	10	25
m,p-Xylenes	0.0500	0.04960		mg/L		99	75 - 125	2	25
MTBE	0.0500	0.05257		mg/L		105	65 - 135	0	25
Naphthalene	0.0500	0.05883		mg/L		118	70 - 130	7	25
n-Butylbenzene	0.0500	0.05499		mg/L		110	75 - 125	2	25
N-Propylbenzene	0.0500	0.05110		mg/L		102	75 - 125	1	25
o-Xylene	0.0500	0.05119		mg/L		102	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05397		mg/L		108	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05204		mg/L		104	75 - 125	0	25
Styrene	0.0500	0.05189		mg/L		104	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05239		mg/L		105	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04866		mg/L		97	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04790		mg/L		96	74 - 125	5	25
Tetrachloroethene	0.0500	0.04938		mg/L		99	71 - 125	2	25
Toluene	0.0500	0.04741		mg/L		95	59 - 139	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-61843/4

Matrix: Water

Analysis Batch: 61843

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	0.04865		mg/L		97	75 - 125	8	25
trans-1,3-Dichloropropene	0.0500	0.05329		mg/L		107	66 - 125	1	25
1,2,3-Trichlorobenzene	0.0500	0.05561		mg/L		111	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.05317		mg/L		106	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04888		mg/L		98	75 - 125	10	25
1,1,2-Trichloroethane	0.0500	0.04997		mg/L		100	75 - 127	1	25
Trichloroethene	0.0500	0.04897		mg/L		98	62 - 137	3	25
Trichlorofluoromethane	0.0500	0.05102		mg/L		102	60 - 140	12	25
1,2,3-Trichloropropane	0.0500	0.04935		mg/L		99	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.05203		mg/L		104	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.05110		mg/L		102	60 - 140	2	25
Vinyl chloride	0.0500	0.04829		mg/L		97	60 - 140	13	25

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

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

Lab Sample ID: MB 860-61904/1-A

Matrix: Water

Analysis Batch: 61861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61904

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		07/21/22 10:48	07/21/22 12:39	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/21/22 10:48	07/21/22 12:39	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/21/22 10:48	07/21/22 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 135	07/21/22 10:48	07/21/22 12:39	1
o-Terphenyl	113		70 - 135	07/21/22 10:48	07/21/22 12:39	1

Lab Sample ID: LCS 860-61904/2-A

Matrix: Water

Analysis Batch: 61861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.8	124.4		mg/L		125	70 - 135
Diesel Range Organics (Over C10-C28)	100	114.8		mg/L		115	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	124		70 - 135
o-Terphenyl	113		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-61904/3-A

Matrix: Water

Analysis Batch: 61861

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61904

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	127.9		mg/L		128	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			100	119.6		mg/L		119	70 - 135	4	35
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	127		70 - 135								
o-Terphenyl	114		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-61929/3

Matrix: Water

Analysis Batch: 61929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.200	U	0.500	0.200 mg/L			07/21/22 13:50	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/21/22 13:50	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/21/22 13:50	1

Lab Sample ID: LCS 860-61929/6

Matrix: Water

Analysis Batch: 61929

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	9.637		mg/L		96	90 - 110		
Fluoride	10.0	10.06		mg/L		101	90 - 110		
Sulfate	10.0	10.17		mg/L		102	90 - 110		

Lab Sample ID: LCSD 860-61929/7

Matrix: Water

Analysis Batch: 61929

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	9.581		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.05		mg/L		100	90 - 110	0	20
Sulfate	10.0	10.14		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-61929/5

Matrix: Water

Analysis Batch: 61929

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	0.5811		mg/L		116	50 - 150		
Fluoride	0.500	0.4837	J	mg/L		97	50 - 150		
Sulfate	0.500	0.5605		mg/L		112	50 - 150		

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17183-1 MS

Matrix: Water

Analysis Batch: 61929

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	81.5		10.0	89.16	4	mg/L		77	90 - 110
Fluoride	0.766		10.0	10.66		mg/L		99	90 - 110
Sulfate	48.5	F2	10.0	74.12	4	mg/L		256	90 - 110

Lab Sample ID: 880-17183-1 MSD

Matrix: Water

Analysis Batch: 61929

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	81.5		10.0	89.41	4	mg/L		79	90 - 110	0	20
Fluoride	0.766		10.0	10.70		mg/L		99	90 - 110	0	20
Sulfate	48.5	F2	10.0	59.74	4 F2	mg/L		112	90 - 110	21	20

Lab Sample ID: MB 860-61930/3

Matrix: Water

Analysis Batch: 61930

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			07/21/22 13:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/21/22 13:50	1

Lab Sample ID: LCS 860-61930/6

Matrix: Water

Analysis Batch: 61930

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	9.556		mg/L		96	80 - 120
Nitrite as N	5.00	4.913		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-61930/7

Matrix: Water

Analysis Batch: 61930

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	9.561		mg/L		96	80 - 120	0	20
Nitrite as N	5.00	4.921		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-61930/4

Matrix: Water

Analysis Batch: 61930

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	0.1184		mg/L		118	50 - 150
Nitrite as N	0.100	0.1152		mg/L		115	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17183-1 MS

Matrix: Water

Analysis Batch: 61930

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	9.454		mg/L		95	80 - 120
Nitrite as N	<0.0293	U F1	2.50	3.214	F1	mg/L		129	80 - 120

Lab Sample ID: 880-17183-1 MSD

Matrix: Water

Analysis Batch: 61930

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	9.470		mg/L		95	80 - 120	0	15
Nitrite as N	<0.0293	U F1	2.50	3.233	F1	mg/L		129	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-62145/4

Matrix: Water

Analysis Batch: 62145

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			07/22/22 11:50	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/22/22 11:50	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/22/22 11:50	1

Lab Sample ID: LCS 860-62145/5

Matrix: Water

Analysis Batch: 62145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 860-62145/6

Matrix: Water

Analysis Batch: 62145

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	257.2		mg/L		103	85 - 115	2	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-62006/1

Matrix: Water

Analysis Batch: 62006

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			07/21/22 18:23	1

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QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-17183-1

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

Lab Sample ID: LCS 860-62006/2				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 62006										
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Sulfide			50.0	46.20		mg/L		92	80 - 120	

Lab Sample ID: LCSD 860-62006/3				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 62006										
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Sulfide			50.0	46.40		mg/L		93	80 - 120	0 20

Lab Sample ID: 880-17183-1 MS				Client Sample ID: MW-1						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 62006										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Sulfide	<0.495	U	50.0	47.00		mg/L		94	80 - 120	

Lab Sample ID: 880-17183-1 MSD				Client Sample ID: MW-1						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 62006										
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Sulfide	<0.495	U	50.0	47.00		mg/L		94	80 - 120	0 20

QC Association Summary

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 61843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	8260C	
880-17183-1	MW-1	Total/NA	Water	8260C	
880-17183-2	MW-2	Total/NA	Water	8260C	
MB 860-61843/10	Method Blank	Total/NA	Water	8260C	
LCS 860-61843/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-61843/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 59566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	8015 NM	
880-17183-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 61859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	8015B NM	61904

Analysis Batch: 61861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-61904/1-A	Method Blank	Total/NA	Water	8015B NM	61904
LCS 860-61904/2-A	Lab Control Sample	Total/NA	Water	8015B NM	61904
LCSD 860-61904/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	61904

Prep Batch: 61904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-17183-2 - RA	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-61904/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-61904/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-61904/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 62025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-2 - RA	MW-2	Total/NA	Water	8015B NM	61904

HPLC/IC

Analysis Batch: 61929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	300.0	
880-17183-2	MW-2	Total/NA	Water	300.0	
MB 860-61929/3	Method Blank	Total/NA	Water	300.0	
LCS 860-61929/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-61929/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-61929/5	Lab Control Sample	Total/NA	Water	300.0	
880-17183-1 MS	MW-1	Total/NA	Water	300.0	
880-17183-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 61930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 61930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-2	MW-2	Total/NA	Water	300.0	
MB 860-61930/3	Method Blank	Total/NA	Water	300.0	
LCS 860-61930/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-61930/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-61930/4	Lab Control Sample	Total/NA	Water	300.0	
880-17183-1 MS	MW-1	Total/NA	Water	300.0	
880-17183-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 62006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-17183-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-62006/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-62006/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-62006/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
880-17183-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-17183-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 62092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-17183-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 62145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	SM 2320B	
880-17183-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-62145/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-62145/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-62145/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 62494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17183-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-17183-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

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Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-17183-1

Client Sample ID: MW-1

Date Collected: 07/20/22 12:00

Date Received: 07/20/22 15:36

Lab Sample ID: 880-17183-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	61843	07/21/22 15:44	AN	XEN STF
Total/NA	Analysis	8260C		5	61843	07/21/22 16:03	AN	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/22/22 17:15	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			61904	07/21/22 15:42	SYH	XEN STF
Total/NA	Analysis	8015B NM		1	61859	07/21/22 18:10	T1S	XEN STF
Total/NA	Analysis	300.0		1	61929	07/21/22 17:11	WP	XEN STF
Total/NA	Analysis	300.0		1	61930	07/21/22 17:11	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	62145	07/22/22 12:41	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	62494	07/26/22 15:54	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	62092	07/22/22 13:04	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	62006	07/21/22 18:23	YGG	XEN STF

Client Sample ID: MW-2

Date Collected: 07/20/22 13:10

Date Received: 07/20/22 15:36

Lab Sample ID: 880-17183-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	61843	07/21/22 16:22	AN	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/22/22 11:49	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		61904	07/21/22 15:42	SYH	XEN STF
Total/NA	Analysis	8015B NM	RA	1	62025	07/22/22 16:27	T1S	XEN STF
Total/NA	Analysis	300.0		1	61929	07/21/22 17:47	WP	XEN STF
Total/NA	Analysis	300.0		1	61930	07/21/22 17:47	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	62145	07/22/22 12:57	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	62494	07/26/22 15:54	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	62092	07/22/22 13:06	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	62006	07/21/22 18:23	YGG	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-17183-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum

Job ID: 880-17183-1

Project/Site: South Hobbs - 03B1417002

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

Protocol References:

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

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

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

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-17183-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17183-1	MW-1	Water	07/20/22 12:00	07/20/22 15:36
880-17183-2	MW-2	Water	07/20/22 13:10	07/20/22 15:36

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Chain of Custody

Work Order No: 7183

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)794-1286
Phoenix, AZ (480-335-0900) Atlanta GA (770-449-3800) Tampa, FL (813) 251-1111
Hobbs, NM (575-382-7550)

Page 1 of 1

Project Manager:	Beaux 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:	bjenings@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 ☐ Rush 24 Hr
P.O. Number:	03B1417002	
Sampler's Name:	Shane Diller	Due Date

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	5.45.8						
Received Intact:	Yes No						
Cooler Custody Seals:	Yes No	(N/A)					
Sample Custody Seals:	Yes No	(N/A)					
		Correction Factor:					
		Total Containers:					

[illegible][illegible]

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	13PPM Texas 11 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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 \$8 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
1 		7/20/22	2		
2 		1536	4		
3			6		
4					
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-17183-1

Login Number: 17183

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: 880-17183-1

Login Number: 17183

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 07/21/22 01:45 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-17439-1

Laboratory Sample Delivery Group: Hobbs NM

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

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

8/10/2022 12:01:09 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through



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

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

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

Laboratory Job ID: 880-17439-1
SDG: Hobbs NM

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Definitions/Glossary

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

Job ID: 880-17439-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Definitions/Glossary

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

Job ID: 880-17439-1
SDG: Hobbs NM

Glossary (Continued)

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

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Case Narrative

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

Job ID: 880-17439-1
SDG: Hobbs NM

Job ID: 880-17439-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-17439-1

Receipt

The sample was received on 7/27/2022 3:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries and precision for analytical batch 860-62707 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-62707 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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 860-62758 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The method blank for analytical batch 860-62758 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Metals

Method 200.7: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-62893 and analytical batch 860-63045 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-17439-1

Date Collected: 07/27/22 09:10

Matrix: Water

Date Received: 07/27/22 15:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00437		0.00100	0.000533 mg/L			07/28/22 17:52	1
Bromobenzene	<0.000665 U		0.00100	0.000665 mg/L			07/28/22 17:52	1
Bromochloromethane	<0.000657 U		0.00100	0.000657 mg/L			07/28/22 17:52	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			07/28/22 17:52	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			07/28/22 17:52	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			07/28/22 17:52	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			07/28/22 17:52	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			07/28/22 17:52	1
Chlorobenzene	<0.000530 U		0.00100	0.000530 mg/L			07/28/22 17:52	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			07/28/22 17:52	1
Chloroform	<0.000643 U		0.00100	0.000643 mg/L			07/28/22 17:52	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			07/28/22 17:52	1
2-Chlorotoluene	<0.00118 U		0.00200	0.00118 mg/L			07/28/22 17:52	1
4-Chlorotoluene	<0.000472 U		0.00100	0.000472 mg/L			07/28/22 17:52	1
cis-1,2-Dichloroethene	<0.000714 U		0.00100	0.000714 mg/L			07/28/22 17:52	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			07/28/22 17:52	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			07/28/22 17:52	1
1,2-Dibromo-3-Chloropropane	<0.00127 U		0.00500	0.00127 mg/L			07/28/22 17:52	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			07/28/22 17:52	1
1,2-Dichlorobenzene	<0.000509 U		0.00100	0.000509 mg/L			07/28/22 17:52	1
1,3-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			07/28/22 17:52	1
1,4-Dichlorobenzene	<0.000513 U		0.00100	0.000513 mg/L			07/28/22 17:52	1
Dichlorodifluoromethane	<0.000919 U *		0.00100	0.000919 mg/L			07/28/22 17:52	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			07/28/22 17:52	1
1,2-Dichloroethane	<0.000590 U		0.00100	0.000590 mg/L			07/28/22 17:52	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			07/28/22 17:52	1
1,2-Dichloropropane	<0.000667 U		0.00500	0.000667 mg/L			07/28/22 17:52	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			07/28/22 17:52	1
2,2-Dichloropropane	<0.000780 U		0.00500	0.000780 mg/L			07/28/22 17:52	1
1,1-Dichloropropene	<0.00160 U		0.00500	0.00160 mg/L			07/28/22 17:52	1
Ethylbenzene	0.0157		0.00100	0.000411 mg/L			07/28/22 17:52	1
Hexachlorobutadiene	<0.00126 U		0.00500	0.00126 mg/L			07/28/22 17:52	1
Isopropylbenzene	0.00744		0.00100	0.000613 mg/L			07/28/22 17:52	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			07/28/22 17:52	1
m,p-Xylenes	0.0617		0.0100	0.00124 mg/L			07/28/22 17:52	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			07/28/22 17:52	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			07/28/22 17:52	1
n-Butylbenzene	<0.000644 U		0.00100	0.000644 mg/L			07/28/22 17:52	1
N-Propylbenzene	0.00345		0.00100	0.000498 mg/L			07/28/22 17:52	1
o-Xylene	0.00998		0.00100	0.000551 mg/L			07/28/22 17:52	1
p-Cymene (p-Isopropyltoluene)	<0.000919 U		0.00100	0.000919 mg/L			07/28/22 17:52	1
sec-Butylbenzene	<0.000468 U		0.00100	0.000468 mg/L			07/28/22 17:52	1
Styrene	<0.000655 U		0.00100	0.000655 mg/L			07/28/22 17:52	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			07/28/22 17:52	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			07/28/22 17:52	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			07/28/22 17:52	1
Tetrachloroethene	<0.000801 U		0.00100	0.000801 mg/L			07/28/22 17:52	1
Toluene	0.0327		0.00100	0.000475 mg/L			07/28/22 17:52	1
trans-1,2-Dichloroethene	<0.000945 U		0.00100	0.000945 mg/L			07/28/22 17:52	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-17439-1

Date Collected: 07/27/22 09:10

Matrix: Water

Date Received: 07/27/22 15:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 17:52	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/28/22 17:52	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/28/22 17:52	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/28/22 17:52	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/28/22 17:52	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/28/22 17:52	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/28/22 17:52	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/28/22 17:52	1
1,2,4-Trimethylbenzene	0.0158		0.00100	0.000417 mg/L			07/28/22 17:52	1
1,3,5-Trimethylbenzene	0.00490		0.00100	0.000456 mg/L			07/28/22 17:52	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/28/22 17:52	1
Xylenes, Total	0.0717		0.0100	0.00124 mg/L			07/28/22 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		07/28/22 17:52	1
Dibromofluoromethane (Surr)	103		75 - 131		07/28/22 17:52	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		07/28/22 17:52	1
Toluene-d8 (Surr)	97		80 - 117		07/28/22 17:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.437	J	0.500	0.0711 mg/L			07/28/22 21:35	1
Nitrate as N	0.201		0.100	0.0391 mg/L			07/28/22 21:35	1
Chloride	209	B	0.500	0.200 mg/L			07/28/22 21:35	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/22 21:35	1
Fluoride	0.349	J	0.500	0.100 mg/L			07/28/22 21:35	1
Sulfate	46.2		0.500	0.109 mg/L			07/28/22 21:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	215		10.0	5.76 mg/L		07/29/22 09:00	07/29/22 16:52	50
Magnesium	42.6		0.200	0.0428 mg/L		07/29/22 09:00	07/29/22 16:34	1
Potassium	3.22		0.500	0.0914 mg/L		07/29/22 09:00	07/29/22 16:34	1
Sodium	68.3		0.500	0.152 mg/L		07/29/22 09:00	07/29/22 16:34	1
SiO2	62.4		1.07	0.471 mg/L		07/29/22 09:00	07/29/22 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-9.64			%			08/10/22 08:36	1
Alkalinity	601		4.00	4.00 mg/L			07/29/22 14:04	1
Bicarbonate Alkalinity as CaCO3	601		4.00	4.00 mg/L			07/29/22 14:04	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/22 14:04	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/22 14:04	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/22 14:04	1
Total Dissolved Solids	1350		10.0	10.0 mg/L			07/28/22 16:07	1
pH	6.7	HF		SU			07/30/22 12:09	1
Temperature	18.4	HF		Degrees C			07/30/22 12:09	1

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Surrogate Summary

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-117)
860-30299-F-1 MS	Matrix Spike	101	105	99	95
880-17439-1	Levey Well	98	103	97	97
LCS 860-62707/3	Lab Control Sample	99	104	97	96
LCSD 860-62707/4	Lab Control Sample Dup	97	104	99	95
MB 860-62707/9	Method Blank	101	102	100	98
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: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-62707/9

Matrix: Water

Analysis Batch: 62707

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			07/28/22 11:45	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/28/22 11:45	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/28/22 11:45	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/28/22 11:45	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/28/22 11:45	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/28/22 11:45	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/28/22 11:45	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/28/22 11:45	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/28/22 11:45	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/28/22 11:45	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/28/22 11:45	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/28/22 11:45	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/28/22 11:45	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/28/22 11:45	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/28/22 11:45	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/28/22 11:45	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/28/22 11:45	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 11:45	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/28/22 11:45	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/28/22 11:45	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/28/22 11:45	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/28/22 11:45	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/28/22 11:45	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/28/22 11:45	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/28/22 11:45	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/28/22 11:45	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/28/22 11:45	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/28/22 11:45	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/28/22 11:45	1
1,1,1-Dichloropropane	<0.00160	U	0.00500	0.00160 mg/L			07/28/22 11:45	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/28/22 11:45	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/28/22 11:45	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/28/22 11:45	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/28/22 11:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/28/22 11:45	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/28/22 11:45	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/28/22 11:45	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/28/22 11:45	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/28/22 11:45	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/28/22 11:45	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/28/22 11:45	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/28/22 11:45	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/28/22 11:45	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/28/22 11:45	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/28/22 11:45	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/28/22 11:45	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/28/22 11:45	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/28/22 11:45	1

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-62707/9

Matrix: Water

Analysis Batch: 62707

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			07/28/22 11:45	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 11:45	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/28/22 11:45	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/28/22 11:45	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/28/22 11:45	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/28/22 11:45	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/28/22 11:45	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/28/22 11:45	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/28/22 11:45	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/28/22 11:45	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/28/22 11:45	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/28/22 11:45	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/28/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		07/28/22 11:45	1
Dibromofluoromethane (Surr)	102		75 - 131		07/28/22 11:45	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		07/28/22 11:45	1
Toluene-d8 (Surr)	98		80 - 117		07/28/22 11:45	1

Lab Sample ID: LCS 860-62707/3

Matrix: Water

Analysis Batch: 62707

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	0.04726		mg/L		95	66 - 142
Bromobenzene	0.0500	0.04755		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.05211		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05028		mg/L		101	75 - 125
Bromoform	0.0500	0.05003		mg/L		100	75 - 125
Bromomethane	0.0500	0.05139		mg/L		103	60 - 140
2-Butanone	0.250	0.2597		mg/L		104	60 - 140
Carbon tetrachloride	0.0500	0.05755		mg/L		115	62 - 125
Chlorobenzene	0.0500	0.04727		mg/L		95	60 - 133
Chloroethane	0.0500	0.04714		mg/L		94	60 - 140
Chloroform	0.0500	0.05076		mg/L		102	70 - 130
Chloromethane	0.0500	0.03919		mg/L		78	60 - 140
2-Chlorotoluene	0.0500	0.04604		mg/L		92	73 - 125
4-Chlorotoluene	0.0500	0.04652		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05118		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05166		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.04839		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04715		mg/L		94	59 - 125
1,2-Dibromoethane	0.0500	0.04734		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.04640		mg/L		93	75 - 125
1,3-Dichlorobenzene	0.0500	0.04687		mg/L		94	75 - 125
1,4-Dichlorobenzene	0.0500	0.04714		mg/L		94	75 - 125
Dichlorodifluoromethane	0.0500	0.03238	*-	mg/L		65	70 - 130

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-62707/3

Matrix: Water

Analysis Batch: 62707

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	0.05111		mg/L		102	72 - 125
1,2-Dichloroethane	0.0500	0.04894		mg/L		98	68 - 127
1,1-Dichloroethene	0.0500	0.05017		mg/L		100	59 - 172
1,2-Dichloropropane	0.0500	0.04851		mg/L		97	74 - 125
1,3-Dichloropropane	0.0500	0.04634		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05527		mg/L		111	75 - 125
1,1-Dichloropropene	0.0500	0.05089		mg/L		102	75 - 125
Ethylbenzene	0.0500	0.04687		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.05020		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.04703		mg/L		94	75 - 125
Methylene Chloride	0.0500	0.04753		mg/L		95	75 - 125
m,p-Xylenes	0.0500	0.04688		mg/L		94	75 - 125
MTBE	0.0500	0.05117		mg/L		102	65 - 135
Naphthalene	0.0500	0.04956		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.04881		mg/L		98	75 - 125
N-Propylbenzene	0.0500	0.04742		mg/L		95	75 - 125
o-Xylene	0.0500	0.04678		mg/L		94	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04769		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04734		mg/L		95	75 - 125
Styrene	0.0500	0.04717		mg/L		94	75 - 125
tert-Butylbenzene	0.0500	0.04678		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04863		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04544		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.04734		mg/L		95	71 - 125
Toluene	0.0500	0.04709		mg/L		94	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05063		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04868		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04720		mg/L		94	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05001		mg/L		100	75 - 135
1,1,1-Trichloroethane	0.0500	0.05134		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04645		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04977		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.05402		mg/L		108	60 - 140
1,2,3-Trichloropropane	0.0500	0.04876		mg/L		98	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04700		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04662		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04655		mg/L		93	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	96		80 - 117

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-62707/4

Matrix: Water

Analysis Batch: 62707

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	0.05006		mg/L		100	66 - 142	6	25
Bromobenzene	0.0500	0.04795		mg/L		96	75 - 125	1	25
Bromochloromethane	0.0500	0.05386		mg/L		108	60 - 140	3	25
Bromodichloromethane	0.0500	0.05251		mg/L		105	75 - 125	4	25
Bromoform	0.0500	0.05227		mg/L		105	75 - 125	4	25
Bromomethane	0.0500	0.05001		mg/L		100	60 - 140	3	25
2-Butanone	0.250	0.2717		mg/L		109	60 - 140	5	25
Carbon tetrachloride	0.0500	0.05894		mg/L		118	62 - 125	2	25
Chlorobenzene	0.0500	0.04855		mg/L		97	60 - 133	3	25
Chloroethane	0.0500	0.04400		mg/L		88	60 - 140	7	25
Chloroform	0.0500	0.05248		mg/L		105	70 - 130	3	25
Chloromethane	0.0500	0.03917		mg/L		78	60 - 140	0	25
2-Chlorotoluene	0.0500	0.04686		mg/L		94	73 - 125	2	25
4-Chlorotoluene	0.0500	0.04700		mg/L		94	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05241		mg/L		105	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05336		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05010		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05110		mg/L		102	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.04954		mg/L		99	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04730		mg/L		95	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04731		mg/L		95	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04765		mg/L		95	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03265	*-	mg/L		65	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.05259		mg/L		105	72 - 125	3	25
1,2-Dichloroethane	0.0500	0.05126		mg/L		103	68 - 127	5	25
1,1-Dichloroethene	0.0500	0.05236		mg/L		105	59 - 172	4	25
1,2-Dichloropropane	0.0500	0.05112		mg/L		102	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04798		mg/L		96	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05799		mg/L		116	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05226		mg/L		105	75 - 125	3	25
Ethylbenzene	0.0500	0.04880		mg/L		98	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05057		mg/L		101	75 - 125	1	25
Isopropylbenzene	0.0500	0.04958		mg/L		99	75 - 125	5	25
Methylene Chloride	0.0500	0.04773		mg/L		95	75 - 125	0	25
m,p-Xylenes	0.0500	0.04856		mg/L		97	75 - 125	4	25
MTBE	0.0500	0.05280		mg/L		106	65 - 135	3	25
Naphthalene	0.0500	0.05967		mg/L		119	70 - 130	19	25
n-Butylbenzene	0.0500	0.04998		mg/L		100	75 - 125	2	25
N-Propylbenzene	0.0500	0.04769		mg/L		95	75 - 125	1	25
o-Xylene	0.0500	0.04885		mg/L		98	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04826		mg/L		97	75 - 125	1	25
sec-Butylbenzene	0.0500	0.04817		mg/L		96	75 - 125	2	25
Styrene	0.0500	0.04906		mg/L		98	75 - 125	4	25
tert-Butylbenzene	0.0500	0.04742		mg/L		95	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04952		mg/L		99	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04641		mg/L		93	74 - 125	2	25
Tetrachloroethene	0.0500	0.04924		mg/L		98	71 - 125	4	25
Toluene	0.0500	0.04826		mg/L		97	59 - 139	2	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-62707/4

Matrix: Water

Analysis Batch: 62707

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	0.05148		mg/L		103	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04998		mg/L		100	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05586		mg/L		112	75 - 137	17	25
1,2,4-Trichlorobenzene	0.0500	0.05493		mg/L		110	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.05268		mg/L		105	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04845		mg/L		97	75 - 127	4	25
Trichloroethene	0.0500	0.05214		mg/L		104	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.05148		mg/L		103	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04707		mg/L		94	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.04763		mg/L		95	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.04702		mg/L		94	60 - 140	1	25
Vinyl chloride	0.0500	0.04554		mg/L		91	60 - 140	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	95		80 - 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-62758/3

Matrix: Water

Analysis Batch: 62758

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			07/28/22 11:41	1
Chloride	<0.200	U	0.500	0.200 mg/L			07/28/22 11:41	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/22 11:41	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/28/22 11:41	1

Lab Sample ID: MB 860-62758/42

Matrix: Water

Analysis Batch: 62758

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			07/28/22 20:59	1
Chloride	0.2001	J	0.500	0.200 mg/L			07/28/22 20:59	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/22 20:59	1
Sulfate	<0.109	U	0.500	0.109 mg/L			07/28/22 20:59	1

Lab Sample ID: LCS 860-62758/43

Matrix: Water

Analysis Batch: 62758

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	10.19		mg/L		102	90 - 110
Chloride	10.0	9.620		mg/L		96	90 - 110
Fluoride	10.0	10.29		mg/L		103	90 - 110

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-62758/43

Matrix: Water

Analysis Batch: 62758

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	9.877		mg/L		99	90 - 110

Lab Sample ID: LCS 860-62758/6

Matrix: Water

Analysis Batch: 62758

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	10.16		mg/L		102	90 - 110
Chloride	10.0	9.643		mg/L		96	90 - 110
Fluoride	10.0	10.28		mg/L		103	90 - 110
Sulfate	10.0	9.866		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-62758/44

Matrix: Water

Analysis Batch: 62758

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	10.20		mg/L		102	90 - 110	0	20
Chloride	10.0	9.625		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.28		mg/L		103	90 - 110	0	20
Sulfate	10.0	9.891		mg/L		99	90 - 110	0	20

Lab Sample ID: LCSD 860-62758/7

Matrix: Water

Analysis Batch: 62758

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	10.18		mg/L		102	90 - 110	0	20
Chloride	10.0	9.606		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.29		mg/L		103	90 - 110	0	20
Sulfate	10.0	9.839		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-62758/5

Matrix: Water

Analysis Batch: 62758

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	0.5455		mg/L		109	50 - 150
Chloride	0.500	0.5837		mg/L		117	50 - 150
Fluoride	0.500	0.4879	J	mg/L		98	50 - 150
Sulfate	0.500	0.5113		mg/L		102	50 - 150

Lab Sample ID: MB 860-62759/3

Matrix: Water

Analysis Batch: 62759

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			07/28/22 11:41	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/22 11:41	1

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-62759/42

Matrix: Water

Analysis Batch: 62759

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			07/28/22 20:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/22 20:59	1

Lab Sample ID: LCS 860-62759/43

Matrix: Water

Analysis Batch: 62759

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	9.786		mg/L		98	80 - 120
Nitrite as N	5.00	4.754		mg/L		95	80 - 120

Lab Sample ID: LCS 860-62759/6

Matrix: Water

Analysis Batch: 62759

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	9.752		mg/L		98	80 - 120
Nitrite as N	5.00	4.732		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-62759/44

Matrix: Water

Analysis Batch: 62759

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	9.810		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.751		mg/L		95	80 - 120	0	20

Lab Sample ID: LCSD 860-62759/7

Matrix: Water

Analysis Batch: 62759

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	9.760		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.738		mg/L		95	80 - 120	0	20

Lab Sample ID: LLCS 860-62759/4

Matrix: Water

Analysis Batch: 62759

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	0.1123		mg/L		112	50 - 150
Nitrite as N	0.100	0.1064		mg/L		106	50 - 150

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-62893/1-A

Matrix: Water

Analysis Batch: 63045

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 62893

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		07/29/22 09:00	07/29/22 16:24	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/29/22 09:00	07/29/22 16:24	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/29/22 09:00	07/29/22 16:24	1
Sodium	<0.152	U	0.500	0.152 mg/L		07/29/22 09:00	07/29/22 16:24	1
SiO2	<0.471	U	1.07	0.471 mg/L		07/29/22 09:00	07/29/22 16:24	1

Lab Sample ID: LCS 860-62893/2-A

Matrix: Water

Analysis Batch: 63045

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 62893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.04		mg/L		96	85 - 115
Magnesium	25.0	24.07		mg/L		96	85 - 115
Potassium	10.0	9.783		mg/L		98	85 - 115
Sodium	25.0	24.13		mg/L		97	85 - 115
SiO2	21.4	21.07		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-62893/3-A

Matrix: Water

Analysis Batch: 63045

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 62893

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.05		mg/L		96	85 - 115	0	20
Magnesium	25.0	24.06		mg/L		96	85 - 115	0	20
Potassium	10.0	9.790		mg/L		98	85 - 115	0	20
Sodium	25.0	24.21		mg/L		97	85 - 115	0	20
SiO2	21.4	21.16		mg/L		99	85 - 115	0	20

Lab Sample ID: LLCS 860-62893/4-A

Matrix: Water

Analysis Batch: 63045

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 62893

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2092		mg/L		105	50 - 150
Magnesium	0.200	0.1953	J	mg/L		98	50 - 150
Potassium	0.500	0.5659		mg/L		113	50 - 150
Sodium	0.500	0.4850	J	mg/L		97	50 - 150
SiO2	1.07	1.089		mg/L		102	50 - 150

Lab Sample ID: 880-17439-1 MS

Matrix: Water

Analysis Batch: 63045

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 62893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	204	E	25.0	219.0	E 4	mg/L		60	70 - 130
Magnesium	42.6		25.0	63.92		mg/L		85	70 - 130
Potassium	3.22		10.0	12.88		mg/L		97	70 - 130
Sodium	68.3		25.0	88.68		mg/L		82	70 - 130
SiO2	62.4		21.4	80.98		mg/L		87	70 - 130

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: 880-17439-1 MSD

Matrix: Water

Analysis Batch: 63045

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 62893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	204	E	25.0	218.9	E 4	mg/L		59	70 - 130	0	20
Magnesium	42.6		25.0	63.95		mg/L		85	70 - 130	0	20
Potassium	3.22		10.0	12.84		mg/L		96	70 - 130	0	20
Sodium	68.3		25.0	88.54		mg/L		81	70 - 130	0	20
SiO2	62.4		21.4	80.70		mg/L		85	70 - 130	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-63005/4

Matrix: Water

Analysis Batch: 63005

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			07/29/22 11:48	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/22 11:48	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/22 11:48	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/22 11:48	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/22 11:48	1

Lab Sample ID: LCS 860-63005/5

Matrix: Water

Analysis Batch: 63005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	262.4		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-63005/6

Matrix: Water

Analysis Batch: 63005

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	266.5		mg/L		107	85 - 115	2	20

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

Lab Sample ID: MB 860-62840/1

Matrix: Water

Analysis Batch: 62840

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			07/28/22 16:07	1

Lab Sample ID: LCS 860-62840/2

Matrix: Water

Analysis Batch: 62840

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	971.0		mg/L		97	80 - 120

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QC Sample Results

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

Job ID: 880-17439-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-62840/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 62840											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Total Dissolved Solids	1000	990.0		mg/L		99	80 - 120	2	10		

Lab Sample ID: LLCS 860-62840/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 62840											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Total Dissolved Solids	5.00	7.000		mg/L		140	50 - 150				

QC Association Summary

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

Job ID: 880-17439-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 62707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	8260C	
MB 860-62707/9	Method Blank	Total/NA	Water	8260C	
LCS 860-62707/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-62707/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 62758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	300.0	
MB 860-62758/3	Method Blank	Total/NA	Water	300.0	
MB 860-62758/42	Method Blank	Total/NA	Water	300.0	
LCS 860-62758/43	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-62758/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-62758/44	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-62758/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-62758/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 62759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	300.0	
MB 860-62759/3	Method Blank	Total/NA	Water	300.0	
MB 860-62759/42	Method Blank	Total/NA	Water	300.0	
LCS 860-62759/43	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-62759/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-62759/44	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-62759/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-62759/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 62893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-62893/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-62893/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-62893/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-62893/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-17439-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-17439-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 63045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	62893
880-17439-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	62893
MB 860-62893/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	62893
LCS 860-62893/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	62893
LCSD 860-62893/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	62893
LLCS 860-62893/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	62893
880-17439-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	62893
880-17439-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	62893

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QC Association Summary

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

Job ID: 880-17439-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 62840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-62840/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-62840/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-62840/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-62840/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 63005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-63005/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-63005/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-63005/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 63027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 64286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17439-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-17439-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-17439-1
Date Collected: 07/27/22 09:10 Matrix: Water
Date Received: 07/27/22 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	62707	TTD	EETSC HOU	07/28/22 17:52
Total/NA	Analysis	300.0		1	62758	WP	EETSC HOU	07/28/22 21:35
Total/NA	Analysis	300.0		1	62759	WP	EETSC HOU	07/28/22 21:35
Total Recoverable	Prep	200.7			62893	MD	EETSC HOU	07/29/22 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	63045	DP	EETSC HOU	07/29/22 16:34
Total Recoverable	Prep	200.7			62893	MD	EETSC HOU	07/29/22 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	63045	DP	EETSC HOU	07/29/22 16:52
Total/NA	Analysis	SM 1030E		1	64286	AA	EETSC HOU	08/10/22 08:36
Total/NA	Analysis	SM 2320B		1	63005	TL	EETSC HOU	07/29/22 14:04
Total/NA	Analysis	SM 2540C		1	62840	MCA	EETSC HOU	07/28/22 16:07
Total/NA	Analysis	SM 4500 H+ B		1	63027	TL	EETSC HOU	07/30/22 12:09

Laboratory References:
EETSC HOU = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-17439-1
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: 880-17439-1
SDG: Hobbs NM

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

- EETSC HOU = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-17439-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17439-1	Levey Well	Water	07/27/22 09:10	07/27/22 15:37

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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

Work Order No: 17439

www.xenco.com Page 1 of 1

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

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

Project Name:	Levey Well	Hobbs NM	Turn Around	ANALYSIS REQUEST		Work Order Notes
Project Number:	03B1417001		Routine ☐			
P.O. Number:	03B1417001		Rush 24 hr			
Sampler's Name:	Aaron Marquez	Kelly Levey	Due Date			
SAMPLE RECEIPT						
Temperature (°C):	5.75	Temp Blank:	Yes ☒ No ☐			
Received In tact:	Yes ☒ No ☐	Thermometer ID	100			
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	1.00			
Sample Custody Seals:	Yes ☒ No ☐	Total Containers:	7			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth		
Levey Well	W	7/27/22	0910	-		
				Number of Containers		
				VOCs		
				Anions: F, Cl, SO4, B		
				Cations: Ca, K, Mg, Na, Si		
				pH		
				Alkalinity		
				TDS		
				TAT starts the day received by the lab, if received by 4 30pm		
				Sample Comments		
				24 hr		

91C2001

Custody Seal 07/27/2022

eurolfins

886-17439 Chain of Custody



guing Test
Environment
TestAmerica

Signature

DATE
SIGNATURE

1002316

Environment
TestAmerica

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	2	7/27/22	3	4	15:37
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-17439-1

SDG Number: Hobbs NM

Login Number: 17439

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: 880-17439-1

SDG Number: Hobbs NM

Login Number: 17439

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 07/28/22 12:42 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-17440-1

Client Project/Site: South Hobbs - 03B1417002

Sampling Event: South Hobbs

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

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

Authorized for release by:

8/2/2022 10:00:12 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-17440-1

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Definitions/Glossary

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

Job ID: 880-17440-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

Definitions/Glossary

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

Job ID: 880-17440-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

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

Job ID: 880-17440-1

Job ID: 880-17440-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-17440-1****Receipt**

The samples were received on 7/27/2022 3:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries and precision for analytical batch 860-62707 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 860-62707 recovered outside control limits for the following analyte(s): Dichloro difluoromethane. Dichloro difluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-2 (880-17440-2). Note: pH 5.

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 860-62758 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The method blank for analytical batch 860-62758 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-17440-1

Date Collected: 07/27/22 10:30

Matrix: Water

Date Received: 07/27/22 15:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L		07/28/22 16:51	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		07/28/22 16:51	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		07/28/22 16:51	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		07/28/22 16:51	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		07/28/22 16:51	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		07/28/22 16:51	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		07/28/22 16:51	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		07/28/22 16:51	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		07/28/22 16:51	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		07/28/22 16:51	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		07/28/22 16:51	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		07/28/22 16:51	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		07/28/22 16:51	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		07/28/22 16:51	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		07/28/22 16:51	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		07/28/22 16:51	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		07/28/22 16:51	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		07/28/22 16:51	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		07/28/22 16:51	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		07/28/22 16:51	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/28/22 16:51	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/28/22 16:51	1
Dichlorodifluoromethane	<0.000919	U *	0.00100	0.000919	mg/L		07/28/22 16:51	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		07/28/22 16:51	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/28/22 16:51	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/28/22 16:51	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/28/22 16:51	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/28/22 16:51	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/28/22 16:51	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/28/22 16:51	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		07/28/22 16:51	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/28/22 16:51	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		07/28/22 16:51	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/28/22 16:51	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		07/28/22 16:51	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/28/22 16:51	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/28/22 16:51	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/28/22 16:51	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		07/28/22 16:51	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		07/28/22 16:51	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/28/22 16:51	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		07/28/22 16:51	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/28/22 16:51	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/28/22 16:51	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/28/22 16:51	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/28/22 16:51	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/28/22 16:51	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		07/28/22 16:51	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/28/22 16:51	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-17440-1

Client Sample ID: MW-1

Lab Sample ID: 880-17440-1

Date Collected: 07/27/22 10:30

Matrix: Water

Date Received: 07/27/22 15:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 16:51	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/28/22 16:51	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/28/22 16:51	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/28/22 16:51	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/28/22 16:51	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/28/22 16:51	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/28/22 16:51	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/28/22 16:51	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/28/22 16:51	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/28/22 16:51	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/28/22 16:51	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/28/22 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/28/22 16:51	1
Dibromofluoromethane (Surr)	102		75 - 131		07/28/22 16:51	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		07/28/22 16:51	1
Toluene-d8 (Surr)	97		80 - 117		07/28/22 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904 mg/L			07/29/22 15:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904 mg/L		07/29/22 14:24	07/29/22 15:33	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904 mg/L		07/29/22 14:24	07/29/22 15:33	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872 mg/L		07/29/22 14:24	07/29/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135			07/29/22 14:24	07/29/22 15:33	1
o-Terphenyl	104		70 - 135			07/29/22 14:24	07/29/22 15:33	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.8	B	0.500	0.200 mg/L			07/28/22 21:59	1
Nitrate as N	0.0482	J	0.100	0.0391 mg/L			07/28/22 21:59	1
Fluoride	0.766		0.500	0.100 mg/L			07/28/22 21:59	1
Nitrite as N	<0.0293	U F1	0.100	0.0293 mg/L			07/28/22 21:59	1
Sulfate	47.2		0.500	0.109 mg/L			07/28/22 21:59	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	268		4.00	4.00 mg/L			07/29/22 14:13	1
Bicarbonate Alkalinity as CaCO3	268		4.00	4.00 mg/L			07/29/22 14:13	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/22 14:13	1
Carbon dioxide	246			mg/L			07/28/22 16:43	1
Carbon Dioxide, Free	10.6			mg/L			07/28/22 16:43	1
pH	7.7	HF		SU			07/30/22 12:02	1

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Client Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-17440-1

Date Collected: 07/27/22 10:30

Matrix: Water

Date Received: 07/27/22 15:37

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	17.6	HF		Degrees C			07/30/22 12:02	1
Sulfide	<0.495	U	5.00	0.495 mg/L			08/01/22 20:02	1

Client Sample ID: MW-2

Lab Sample ID: 880-17440-2

Date Collected: 07/27/22 11:55

Matrix: Water

Date Received: 07/27/22 15:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0177		0.00100	0.000533 mg/L			07/28/22 17:11	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/28/22 17:11	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/28/22 17:11	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/28/22 17:11	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/28/22 17:11	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/28/22 17:11	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/28/22 17:11	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/28/22 17:11	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/28/22 17:11	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/28/22 17:11	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/28/22 17:11	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/28/22 17:11	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/28/22 17:11	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/28/22 17:11	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/28/22 17:11	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/28/22 17:11	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/28/22 17:11	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 17:11	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/28/22 17:11	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/28/22 17:11	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/28/22 17:11	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/28/22 17:11	1
Dichlorodifluoromethane	<0.000919	U *	0.00100	0.000919 mg/L			07/28/22 17:11	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/28/22 17:11	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/28/22 17:11	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/28/22 17:11	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/28/22 17:11	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/28/22 17:11	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/28/22 17:11	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/28/22 17:11	1
Ethylbenzene	0.0178		0.00100	0.000411 mg/L			07/28/22 17:11	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/28/22 17:11	1
Isopropylbenzene	0.00677		0.00100	0.000613 mg/L			07/28/22 17:11	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/28/22 17:11	1
m,p-Xylenes	0.119		0.0100	0.00124 mg/L			07/28/22 17:11	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/28/22 17:11	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/28/22 17:11	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/28/22 17:11	1
N-Propylbenzene	0.00189		0.00100	0.000498 mg/L			07/28/22 17:11	1
o-Xylene	0.00838		0.00100	0.000551 mg/L			07/28/22 17:11	1
p-Cymene (p-Isopropyltoluene)	0.000986	J	0.00100	0.000919 mg/L			07/28/22 17:11	1

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Client Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-17440-2

Date Collected: 07/27/22 11:55

Matrix: Water

Date Received: 07/27/22 15:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.000911	J	0.00100	0.000468 mg/L			07/28/22 17:11	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/28/22 17:11	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/28/22 17:11	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/28/22 17:11	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/28/22 17:11	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/28/22 17:11	1
Toluene	0.00165		0.00100	0.000475 mg/L			07/28/22 17:11	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/28/22 17:11	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 17:11	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/28/22 17:11	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/28/22 17:11	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/28/22 17:11	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/28/22 17:11	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/28/22 17:11	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/28/22 17:11	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/28/22 17:11	1
1,2,4-Trimethylbenzene	0.0369		0.00100	0.000417 mg/L			07/28/22 17:11	1
1,3,5-Trimethylbenzene	0.00999		0.00100	0.000456 mg/L			07/28/22 17:11	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/28/22 17:11	1
Xylenes, Total	0.127		0.0100	0.00124 mg/L			07/28/22 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		07/28/22 17:11	1
Dibromofluoromethane (Surr)	105		75 - 131		07/28/22 17:11	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		07/28/22 17:11	1
Toluene-d8 (Surr)	94		80 - 117		07/28/22 17:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.49	J	4.93	0.975 mg/L			07/29/22 15:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.49	J	4.93	0.975 mg/L		07/28/22 12:05	07/28/22 22:21	1
Diesel Range Organics (Over C10-C28)	<0.975	U	4.93	0.975 mg/L		07/28/22 12:05	07/28/22 22:21	1
Oil Range Organics (Over C28-C36)	<0.941	U	4.93	0.941 mg/L		07/28/22 12:05	07/28/22 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 135	07/28/22 12:05	07/28/22 22:21	1
o-Terphenyl	101		70 - 135	07/28/22 12:05	07/28/22 22:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101	B	0.500	0.200 mg/L			07/28/22 22:35	1
Nitrate as N	0.403		0.100	0.0391 mg/L			07/28/22 22:35	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/22 22:35	1
Nitrite as N	3.86		1.00	0.293 mg/L			07/28/22 22:46	10
Sulfate	105		0.500	0.109 mg/L			07/28/22 22:35	1

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Client Sample Results

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

Job ID: 880-17440-1

Client Sample ID: MW-2
Date Collected: 07/27/22 11:55
Date Received: 07/27/22 15:37

Lab Sample ID: 880-17440-2
Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1340		4.00	4.00	mg/L			07/29/22 14:37	1
Bicarbonate Alkalinity as CaCO3	1340		4.00	4.00	mg/L			07/29/22 14:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/29/22 14:37	1
Carbon dioxide	2250				mg/L			07/28/22 16:43	1
Carbon Dioxide, Free	1070				mg/L			07/28/22 16:43	1
pH	6.4	HF			SU			07/30/22 12:04	1
Temperature	18.2	HF			Degrees C			07/30/22 12:04	1
Sulfide	<0.495	U	5.00	0.495	mg/L			08/01/22 20:02	1

Surrogate Summary

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-117)
860-30299-F-1 MS	Matrix Spike	101	105	99	95
880-17440-1	MW-1	102	102	100	97
880-17440-2	MW-2	100	105	102	94
LCS 860-62707/3	Lab Control Sample	99	104	97	96
LCSD 860-62707/4	Lab Control Sample Dup	97	104	99	95
MB 860-62707/9	Method Blank	101	102	100	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
880-17440-1	MW-1	97	104
880-17440-2	MW-2	77	101
LCS 860-62685/2-A	Lab Control Sample	117	110
LCS 860-62981/2-A	Lab Control Sample	107	100
LCSD 860-62685/3-A	Lab Control Sample Dup	115	106
LCSD 860-62981/3-A	Lab Control Sample Dup	112	103
MB 860-62685/1-A	Method Blank	99	107
MB 860-62981/1-A	Method Blank	88	95
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-62707/9

Matrix: Water

Analysis Batch: 62707

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			07/28/22 11:45	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/28/22 11:45	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/28/22 11:45	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/28/22 11:45	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/28/22 11:45	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/28/22 11:45	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/28/22 11:45	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/28/22 11:45	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/28/22 11:45	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/28/22 11:45	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/28/22 11:45	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/28/22 11:45	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/28/22 11:45	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/28/22 11:45	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/28/22 11:45	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/28/22 11:45	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/28/22 11:45	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 11:45	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/28/22 11:45	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/28/22 11:45	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/28/22 11:45	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/28/22 11:45	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/28/22 11:45	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/28/22 11:45	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/28/22 11:45	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/28/22 11:45	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/28/22 11:45	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/28/22 11:45	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/28/22 11:45	1
1,1,1-Dichloropropane	<0.00160	U	0.00500	0.00160 mg/L			07/28/22 11:45	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/28/22 11:45	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/28/22 11:45	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/28/22 11:45	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/28/22 11:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/28/22 11:45	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/28/22 11:45	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/28/22 11:45	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/28/22 11:45	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/28/22 11:45	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/28/22 11:45	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/28/22 11:45	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/28/22 11:45	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/28/22 11:45	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/28/22 11:45	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/28/22 11:45	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/28/22 11:45	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/28/22 11:45	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/28/22 11:45	1

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QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-62707/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62707

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			07/28/22 11:45	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/28/22 11:45	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/28/22 11:45	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/28/22 11:45	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/28/22 11:45	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/28/22 11:45	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/28/22 11:45	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/28/22 11:45	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/28/22 11:45	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/28/22 11:45	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/28/22 11:45	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/28/22 11:45	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/28/22 11:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				07/28/22 11:45	1
Dibromofluoromethane (Surr)	102		75 - 131				07/28/22 11:45	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144				07/28/22 11:45	1
Toluene-d8 (Surr)	98		80 - 117				07/28/22 11:45	1

Lab Sample ID: LCS 860-62707/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04726		mg/L		95	66 - 142
Bromobenzene	0.0500	0.04755		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.05211		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.05028		mg/L		101	75 - 125
Bromoform	0.0500	0.05003		mg/L		100	75 - 125
Bromomethane	0.0500	0.05139		mg/L		103	60 - 140
2-Butanone	0.250	0.2597		mg/L		104	60 - 140
Carbon tetrachloride	0.0500	0.05755		mg/L		115	62 - 125
Chlorobenzene	0.0500	0.04727		mg/L		95	60 - 133
Chloroethane	0.0500	0.04714		mg/L		94	60 - 140
Chloroform	0.0500	0.05076		mg/L		102	70 - 130
Chloromethane	0.0500	0.03919		mg/L		78	60 - 140
2-Chlorotoluene	0.0500	0.04604		mg/L		92	73 - 125
4-Chlorotoluene	0.0500	0.04652		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05118		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05166		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.04839		mg/L		97	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04715		mg/L		94	59 - 125
1,2-Dibromoethane	0.0500	0.04734		mg/L		95	73 - 125
1,2-Dichlorobenzene	0.0500	0.04640		mg/L		93	75 - 125
1,3-Dichlorobenzene	0.0500	0.04687		mg/L		94	75 - 125
1,4-Dichlorobenzene	0.0500	0.04714		mg/L		94	75 - 125
Dichlorodifluoromethane	0.0500	0.03238	*-	mg/L		65	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-62707/3

Matrix: Water

Analysis Batch: 62707

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	0.05111		mg/L		102	72 - 125
1,2-Dichloroethane	0.0500	0.04894		mg/L		98	68 - 127
1,1-Dichloroethene	0.0500	0.05017		mg/L		100	59 - 172
1,2-Dichloropropane	0.0500	0.04851		mg/L		97	74 - 125
1,3-Dichloropropane	0.0500	0.04634		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05527		mg/L		111	75 - 125
1,1-Dichloropropene	0.0500	0.05089		mg/L		102	75 - 125
Ethylbenzene	0.0500	0.04687		mg/L		94	75 - 125
Hexachlorobutadiene	0.0500	0.05020		mg/L		100	75 - 125
Isopropylbenzene	0.0500	0.04703		mg/L		94	75 - 125
Methylene Chloride	0.0500	0.04753		mg/L		95	75 - 125
m,p-Xylenes	0.0500	0.04688		mg/L		94	75 - 125
MTBE	0.0500	0.05117		mg/L		102	65 - 135
Naphthalene	0.0500	0.04956		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.04881		mg/L		98	75 - 125
N-Propylbenzene	0.0500	0.04742		mg/L		95	75 - 125
o-Xylene	0.0500	0.04678		mg/L		94	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04769		mg/L		95	75 - 125
sec-Butylbenzene	0.0500	0.04734		mg/L		95	75 - 125
Styrene	0.0500	0.04717		mg/L		94	75 - 125
tert-Butylbenzene	0.0500	0.04678		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04863		mg/L		97	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04544		mg/L		91	74 - 125
Tetrachloroethene	0.0500	0.04734		mg/L		95	71 - 125
Toluene	0.0500	0.04709		mg/L		94	59 - 139
trans-1,2-Dichloroethene	0.0500	0.05063		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04868		mg/L		97	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04720		mg/L		94	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05001		mg/L		100	75 - 135
1,1,1-Trichloroethane	0.0500	0.05134		mg/L		103	75 - 125
1,1,2-Trichloroethane	0.0500	0.04645		mg/L		93	75 - 127
Trichloroethene	0.0500	0.04977		mg/L		100	62 - 137
Trichlorofluoromethane	0.0500	0.05402		mg/L		108	60 - 140
1,2,3-Trichloropropane	0.0500	0.04876		mg/L		98	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04700		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04662		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04655		mg/L		93	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	96		80 - 117

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-62707/4

Matrix: Water

Analysis Batch: 62707

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	0.05006		mg/L		100	66 - 142	6	25
Bromobenzene	0.0500	0.04795		mg/L		96	75 - 125	1	25
Bromochloromethane	0.0500	0.05386		mg/L		108	60 - 140	3	25
Bromodichloromethane	0.0500	0.05251		mg/L		105	75 - 125	4	25
Bromoform	0.0500	0.05227		mg/L		105	75 - 125	4	25
Bromomethane	0.0500	0.05001		mg/L		100	60 - 140	3	25
2-Butanone	0.250	0.2717		mg/L		109	60 - 140	5	25
Carbon tetrachloride	0.0500	0.05894		mg/L		118	62 - 125	2	25
Chlorobenzene	0.0500	0.04855		mg/L		97	60 - 133	3	25
Chloroethane	0.0500	0.04400		mg/L		88	60 - 140	7	25
Chloroform	0.0500	0.05248		mg/L		105	70 - 130	3	25
Chloromethane	0.0500	0.03917		mg/L		78	60 - 140	0	25
2-Chlorotoluene	0.0500	0.04686		mg/L		94	73 - 125	2	25
4-Chlorotoluene	0.0500	0.04700		mg/L		94	74 - 125	1	25
cis-1,2-Dichloroethene	0.0500	0.05241		mg/L		105	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05336		mg/L		107	74 - 125	3	25
Dibromochloromethane	0.0500	0.05010		mg/L		100	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05110		mg/L		102	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.04954		mg/L		99	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04730		mg/L		95	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04731		mg/L		95	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04765		mg/L		95	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03265	*-	mg/L		65	70 - 130	1	25
1,1-Dichloroethane	0.0500	0.05259		mg/L		105	72 - 125	3	25
1,2-Dichloroethane	0.0500	0.05126		mg/L		103	68 - 127	5	25
1,1-Dichloroethene	0.0500	0.05236		mg/L		105	59 - 172	4	25
1,2-Dichloropropane	0.0500	0.05112		mg/L		102	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04798		mg/L		96	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05799		mg/L		116	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05226		mg/L		105	75 - 125	3	25
Ethylbenzene	0.0500	0.04880		mg/L		98	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.05057		mg/L		101	75 - 125	1	25
Isopropylbenzene	0.0500	0.04958		mg/L		99	75 - 125	5	25
Methylene Chloride	0.0500	0.04773		mg/L		95	75 - 125	0	25
m,p-Xylenes	0.0500	0.04856		mg/L		97	75 - 125	4	25
MTBE	0.0500	0.05280		mg/L		106	65 - 135	3	25
Naphthalene	0.0500	0.05967		mg/L		119	70 - 130	19	25
n-Butylbenzene	0.0500	0.04998		mg/L		100	75 - 125	2	25
N-Propylbenzene	0.0500	0.04769		mg/L		95	75 - 125	1	25
o-Xylene	0.0500	0.04885		mg/L		98	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04826		mg/L		97	75 - 125	1	25
sec-Butylbenzene	0.0500	0.04817		mg/L		96	75 - 125	2	25
Styrene	0.0500	0.04906		mg/L		98	75 - 125	4	25
tert-Butylbenzene	0.0500	0.04742		mg/L		95	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04952		mg/L		99	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.04641		mg/L		93	74 - 125	2	25
Tetrachloroethene	0.0500	0.04924		mg/L		98	71 - 125	4	25
Toluene	0.0500	0.04826		mg/L		97	59 - 139	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-62707/4

Matrix: Water

Analysis Batch: 62707

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	0.05148		mg/L		103	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.04998		mg/L		100	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05586		mg/L		112	75 - 137	17	25
1,2,4-Trichlorobenzene	0.0500	0.05493		mg/L		110	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.05268		mg/L		105	75 - 125	3	25
1,1,2-Trichloroethane	0.0500	0.04845		mg/L		97	75 - 127	4	25
Trichloroethene	0.0500	0.05214		mg/L		104	62 - 137	5	25
Trichlorofluoromethane	0.0500	0.05148		mg/L		103	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04707		mg/L		94	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.04763		mg/L		95	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.04702		mg/L		94	60 - 140	1	25
Vinyl chloride	0.0500	0.04554		mg/L		91	60 - 140	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	95		80 - 117

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

Lab Sample ID: MB 860-62685/1-A

Matrix: Water

Analysis Batch: 62601

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62685

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		07/27/22 17:43	07/28/22 02:11	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/27/22 17:43	07/28/22 02:11	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/27/22 17:43	07/28/22 02:11	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	07/27/22 17:43	07/28/22 02:11	1
o-Terphenyl	107		70 - 135	07/27/22 17:43	07/28/22 02:11	1

Lab Sample ID: LCS 860-62685/2-A

Matrix: Water

Analysis Batch: 62601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	130.1		mg/L		130	70 - 135
Diesel Range Organics (Over C10-C28)	99.5	111.7		mg/L		112	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1-Chlorooctane	117		70 - 135
o-Terphenyl	110		70 - 135

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QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-62685/3-A

Matrix: Water

Analysis Batch: 62601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62685

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	131.2		mg/L		131	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	99.5	109.9		mg/L		111	70 - 135	2	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	115		70 - 135						
o-Terphenyl	106		70 - 135						

Lab Sample ID: MB 860-62981/1-A

Matrix: Water

Analysis Batch: 62946

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62981

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		07/29/22 14:24	07/29/22 15:13	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/29/22 14:24	07/29/22 15:13	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/29/22 14:24	07/29/22 15:13	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 135			07/29/22 14:24	07/29/22 15:13	1
o-Terphenyl	95		70 - 135			07/29/22 14:24	07/29/22 15:13	1

Lab Sample ID: LCS 860-62981/2-A

Matrix: Water

Analysis Batch: 62946

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	100	132.7		mg/L		133	70 - 135		
Diesel Range Organics (Over C10-C28)	99.5	107.6		mg/L		108	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	107		70 - 135						
o-Terphenyl	100		70 - 135						

Lab Sample ID: LCSD 860-62981/3-A

Matrix: Water

Analysis Batch: 62946

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	127.4		mg/L		127	70 - 135	4	35
Diesel Range Organics (Over C10-C28)	99.5	107.7		mg/L		108	70 - 135	0	35

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QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-62981/3-A

Matrix: Water

Analysis Batch: 62946

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62981

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 135
o-Terphenyl	103		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-62758/3

Matrix: Water

Analysis Batch: 62758

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			07/28/22 11:41	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/22 11:41	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			07/28/22 11:41	1	

Lab Sample ID: MB 860-62758/42

Matrix: Water

Analysis Batch: 62758

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	0.2001	J	0.500	0.200 mg/L			07/28/22 20:59	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/22 20:59	1	
Sulfate	<0.109	U	0.500	0.109 mg/L			07/28/22 20:59	1	

Lab Sample ID: LCS 860-62758/43

Matrix: Water

Analysis Batch: 62758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	10.0	9.620		mg/L		96	90 - 110		
Fluoride	10.0	10.29		mg/L		103	90 - 110		
Sulfate	10.0	9.877		mg/L		99	90 - 110		

Lab Sample ID: LCS 860-62758/6

Matrix: Water

Analysis Batch: 62758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	10.0	9.643		mg/L		96	90 - 110		
Fluoride	10.0	10.28		mg/L		103	90 - 110		
Sulfate	10.0	9.866		mg/L		99	90 - 110		

Lab Sample ID: LCSD 860-62758/44

Matrix: Water

Analysis Batch: 62758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	10.0	9.625		mg/L		96	90 - 110	0	20	
Fluoride	10.0	10.28		mg/L		103	90 - 110	0	20	
Sulfate	10.0	9.891		mg/L		99	90 - 110	0	20	

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QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-62758/7

Matrix: Water

Analysis Batch: 62758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Chloride	10.0	9.606			mg/L		96	90 - 110	0	20
Fluoride	10.0	10.29			mg/L		103	90 - 110	0	20
Sulfate	10.0	9.839			mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-62758/5

Matrix: Water

Analysis Batch: 62758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Chloride	0.500	0.5837			mg/L		117	50 - 150	
Fluoride	0.500	0.4879	J		mg/L		98	50 - 150	
Sulfate	0.500	0.5113			mg/L		102	50 - 150	

Lab Sample ID: 880-17440-1 MS

Matrix: Water

Analysis Batch: 62758

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Chloride	85.8	B	10.0	90.52	4	mg/L		47	90 - 110	
Fluoride	0.766		10.0	10.82		mg/L		101	90 - 110	
Sulfate	47.2		10.0	56.58	4	mg/L		94	90 - 110	

Lab Sample ID: 880-17440-1 MSD

Matrix: Water

Analysis Batch: 62758

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Chloride	85.8	B	10.0	90.42	4	mg/L		46	90 - 110	0	20
Fluoride	0.766		10.0	10.81		mg/L		100	90 - 110	0	20
Sulfate	47.2		10.0	56.42	4	mg/L		92	90 - 110	0	20

Lab Sample ID: MB 860-62759/3

Matrix: Water

Analysis Batch: 62759

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/28/22 11:41	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/22 11:41	1

Lab Sample ID: MB 860-62759/42

Matrix: Water

Analysis Batch: 62759

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/28/22 20:59	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/22 20:59	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-62759/43

Matrix: Water

Analysis Batch: 62759

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	9.786		mg/L		98	80 - 120
Nitrite as N	5.00	4.754		mg/L		95	80 - 120

Lab Sample ID: LCS 860-62759/6

Matrix: Water

Analysis Batch: 62759

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	9.752		mg/L		98	80 - 120
Nitrite as N	5.00	4.732		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-62759/44

Matrix: Water

Analysis Batch: 62759

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	9.810		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.751		mg/L		95	80 - 120	0	20

Lab Sample ID: LCSD 860-62759/7

Matrix: Water

Analysis Batch: 62759

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	9.760		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.738		mg/L		95	80 - 120	0	20

Lab Sample ID: LLCS 860-62759/4

Matrix: Water

Analysis Batch: 62759

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	0.1123		mg/L		112	50 - 150
Nitrite as N	0.100	0.1064		mg/L		106	50 - 150

Lab Sample ID: 880-17440-1 MS

Matrix: Water

Analysis Batch: 62759

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	0.0482	J	10.0	9.655		mg/L		96	80 - 120
Nitrite as N	<0.0293	U F1	2.50	1.903	F1	mg/L		76	80 - 120

Lab Sample ID: 880-17440-1 MSD

Matrix: Water

Analysis Batch: 62759

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	0.0482	J	10.0	9.644		mg/L		96	80 - 120	0	15
Nitrite as N	<0.0293	U F1	2.50	1.905	F1	mg/L		76	80 - 120	0	15

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-63005/4

Matrix: Water

Analysis Batch: 63005

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			07/29/22 11:48	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/22 11:48	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/22 11:48	1

Lab Sample ID: LCS 860-63005/5

Matrix: Water

Analysis Batch: 63005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	262.4		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-63005/6

Matrix: Water

Analysis Batch: 63005

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	266.5		mg/L		107	85 - 115	2	20

Lab Sample ID: 880-17440-1 DU

Matrix: Water

Analysis Batch: 63005

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	268		267.9		mg/L		0.1	20
Bicarbonate Alkalinity as CaCO3	268		267.9		mg/L		0.1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 860-63193/1

Matrix: Water

Analysis Batch: 63193

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			08/01/22 20:02	1

Lab Sample ID: LCS 860-63193/2

Matrix: Water

Analysis Batch: 63193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	50.0	46.40		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-63193/3

Matrix: Water

Analysis Batch: 63193

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	50.0	46.40		mg/L		93	80 - 120	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-17440-1

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

Lab Sample ID: 880-17440-1 MS

Matrix: Water

Analysis Batch: 63193

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.495	U	50.0	45.80		mg/L		92	80 - 120

Lab Sample ID: 880-17440-1 MSD

Matrix: Water

Analysis Batch: 63193

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.495	U	50.0	45.60		mg/L		91	80 - 120	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-17440-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 62707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	8260C	
880-17440-2	MW-2	Total/NA	Water	8260C	
MB 860-62707/9	Method Blank	Total/NA	Water	8260C	
LCS 860-62707/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-62707/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 59566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	8015 NM	
880-17440-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 62601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-62685/1-A	Method Blank	Total/NA	Water	8015B NM	62685
LCS 860-62685/2-A	Lab Control Sample	Total/NA	Water	8015B NM	62685
LCSD 860-62685/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	62685

Prep Batch: 62685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-62685/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-62685/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-62685/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 62762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-2	MW-2	Total/NA	Water	8015B NM	62685

Analysis Batch: 62946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	8015B NM	62981
MB 860-62981/1-A	Method Blank	Total/NA	Water	8015B NM	62981
LCS 860-62981/2-A	Lab Control Sample	Total/NA	Water	8015B NM	62981
LCSD 860-62981/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	62981

Prep Batch: 62981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	8015NM Aq Prep	
MB 860-62981/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-62981/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-62981/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 62758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	300.0	
880-17440-2	MW-2	Total/NA	Water	300.0	
MB 860-62758/3	Method Blank	Total/NA	Water	300.0	
MB 860-62758/42	Method Blank	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-17440-1

HPLC/IC (Continued)

Analysis Batch: 62758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-62758/43	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-62758/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-62758/44	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-62758/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-62758/5	Lab Control Sample	Total/NA	Water	300.0	
880-17440-1 MS	MW-1	Total/NA	Water	300.0	
880-17440-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 62759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	300.0	
880-17440-2	MW-2	Total/NA	Water	300.0	
880-17440-2	MW-2	Total/NA	Water	300.0	
MB 860-62759/3	Method Blank	Total/NA	Water	300.0	
MB 860-62759/42	Method Blank	Total/NA	Water	300.0	
LCS 860-62759/43	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-62759/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-62759/44	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-62759/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-62759/4	Lab Control Sample	Total/NA	Water	300.0	
880-17440-1 MS	MW-1	Total/NA	Water	300.0	
880-17440-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 62848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-17440-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 63005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	SM 2320B	
880-17440-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-63005/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-63005/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-63005/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-17440-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 63027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-17440-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 63193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1	MW-1	Total/NA	Water	SM 4500 S2 F	
880-17440-2	MW-2	Total/NA	Water	SM 4500 S2 F	
MB 860-63193/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 860-63193/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 860-63193/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	

Eurofins Midland

QC Association Summary

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

Job ID: 880-17440-1

General Chemistry (Continued)

Analysis Batch: 63193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17440-1 MS	MW-1	Total/NA	Water	SM 4500 S2 F	
880-17440-1 MSD	MW-1	Total/NA	Water	SM 4500 S2 F	

- 1
- 2
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- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-17440-1

Client Sample ID: MW-1

Lab Sample ID: 880-17440-1

Date Collected: 07/27/22 10:30

Matrix: Water

Date Received: 07/27/22 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62707	07/28/22 16:51	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/29/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			62981	07/29/22 14:24	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	62946	07/29/22 15:33	SAR	XEN STF
Total/NA	Analysis	300.0		1	62758	07/28/22 21:59	WP	XEN STF
Total/NA	Analysis	300.0		1	62759	07/28/22 21:59	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	63005	07/29/22 14:13	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	62848	07/28/22 16:43	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	63027	07/30/22 12:02	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	63193	08/01/22 20:02	YGG	XEN STF

Client Sample ID: MW-2

Lab Sample ID: 880-17440-2

Date Collected: 07/27/22 11:55

Matrix: Water

Date Received: 07/27/22 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62707	07/28/22 17:11	TTD	XEN STF
Total/NA	Analysis	8015 NM		1	59566	07/29/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Aq Prep			62685	07/28/22 12:05	SAR	XEN STF
Total/NA	Analysis	8015B NM		1	62762	07/28/22 22:21	T1S	XEN STF
Total/NA	Analysis	300.0		1	62758	07/28/22 22:35	WP	XEN STF
Total/NA	Analysis	300.0		1	62759	07/28/22 22:35	WP	XEN STF
Total/NA	Analysis	300.0		10	62759	07/28/22 22:46	WP	XEN STF
Total/NA	Analysis	SM 2320B		1	63005	07/29/22 14:37	TL	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1	62848	07/28/22 16:43	AA	XEN STF
Total/NA	Analysis	SM 4500 H+ B		1	63027	07/30/22 12:04	TL	XEN STF
Total/NA	Analysis	SM 4500 S2 F		1	63193	08/01/22 20:02	YGG	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

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

Job ID: 880-17440-1

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: 880-17440-1

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

Protocol References:

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

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

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

Laboratory References:

XEN STF = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

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

Job ID: 880-17440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17440-1	MW-1	Water	07/27/22 10:30	07/27/22 15:37
880-17440-2	MW-2	Water	07/27/22 11:55	07/27/22 15:37

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- 12
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Chain of Custody

Work Order No.:

1775

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) 555-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-575-3927)
Hobbs, NM (575-392-7550)

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Project Manager:	Beaux Jennings	Bill to, (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marrenfeld Street, Ste 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:	South Hobbs	Turn Around	ANALYSIS REQUEST							Work Order Notes
Project Number:	03B1417002	Routine ☐								
P.O. Number:	03B1417002	Rush 24 Hr								
Sampler's Name:	~~Aaron Marquez~~ Kelly Harvey	Due Date								
			4500 CO2 c							
			376.2							
			300							
			.1							

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

Number of Containers

Carbon Dioxide

Sulfide SW-846 #

V-846 #8260

A Method #8015

EPA Method #846

SW-846 Method 150

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

[illegible]

880-17440 Chain of Custody



1002317

Custody Seal

17/11/2017



eurotins

DATE:

**Environment Testing
TestAmerica**

eurofins

SIGNATURE

[Signature]

1002317

Total 200.7 / 6010 200.0 / 6000

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 \$3 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		7/27/22	2		
3		15:37	4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-17440-1

Login Number: 17440

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: 880-17440-1

Login Number: 17440

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 07/28/22 12:49 PM

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



ANALYTICAL REPORT

July 15, 2022

Ensolum, LLC

Sample Delivery Group: L1515075
Samples Received: 07/09/2022
Project Number: 0381417001
Description: Levey Well
Site: 0381417001
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 "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1515075-01	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 L1515075-01 Air

Collected by
Shane Diller

Collected date/time
07/07/22 13:40

Received date/time
07/09/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1895739	400	07/15/22 14:02	07/15/22 14:02	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1895903	10000	07/15/22 14:57	07/15/22 14:57	CEP	Mt. Juliet, TN

¹Cp

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³Ss

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⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 07/15/2022 15:46					
Project Name: Levey Well		Laboratory Job Number: L1515075-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1895739 and WG1895903					
# 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: 07/15/2022 15:46				
Project Name: Levey Well			Laboratory Job Number: L1515075-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1895739 and WG1895903				
# 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: 07/15/2022 15:46	
Project Name: Levey Well		Laboratory Job Number: L1515075-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1895739 and WG1895903	
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: 07/07/22 13:40

L1515075

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	500	1190	6530	15500		400	WG1895739
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1895739
Benzene	71-43-2	78.10	80.0	256	ND	ND		400	WG1895739
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1895739
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1895739
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1895739
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1895739
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1895739
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1895739
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1895739
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1895739
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1895739
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1895739
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1895739
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1895739
Cyclohexane	110-82-7	84.20	2000	6890	48300	166000		10000	WG1895903
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1895739
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1895739
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1895739
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1895739
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1895739
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1895739
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1895739
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1895739
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1895739
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1895739
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1895739
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1895739
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1895739
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1895739
Ethanol	64-17-5	46.10	500	943	1690	3190		400	WG1895739
Ethylbenzene	100-41-4	106	80.0	347	ND	ND		400	WG1895739
4-Ethyltoluene	622-96-8	120	80.0	393	ND	ND		400	WG1895739
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1895739
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1895739
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1895739
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1895739
Heptane	142-82-5	100	2000	8180	74100	303000		10000	WG1895903
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1895739
n-Hexane	110-54-3	86.20	6300	22200	702000	2470000		10000	WG1895903
Isopropylbenzene	98-82-8	120.20	80.0	393	ND	ND		400	WG1895739
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1895739
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1895739
2-Butanone (MEK)	78-93-3	72.10	500	1470	4140	12200		400	WG1895739
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1895739
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1895739
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1895739
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1895739
2-Propanol	67-63-0	60.10	500	1230	5910	14500		400	WG1895739
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1895739
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1895739
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1895739
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1895739
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1895739
Toluene	108-88-3	92.10	200	753	ND	ND		400	WG1895739
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1895739



Collected date/time: 07/07/22 13:40

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	80.0	435	ND	ND		400	WG1895739
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1895739
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1895739
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	ND	ND		400	WG1895739
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	116	569		400	WG1895739
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1895739
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1895739
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1895739
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1895739
m&p-Xylene	1330-20-7	106	160	694	ND	ND		400	WG1895739
o-Xylene	95-47-6	106	80.0	347	ND	ND		400	WG1895739
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	1610000	6650000		400	WG1895739
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.4				WG1895739
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.3				WG1895903

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3815402-3 07/15/22 10:36

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	0.116	U	0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1515075-01

Method Blank (MB)

(MB) R3815402-3 07/15/22 10:36

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	U		39.7	200
(S) 1,4-Bromofluorobenzene	94.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815402-1 07/15/22 08:56 • (LCSD) R3815402-2 07/15/22 09:47

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	3.37	3.31	89.9	88.3	70.0-130			1.80	25
Allyl Chloride	3.75	3.06	3.23	81.6	86.1	70.0-130			5.41	25
Benzene	3.75	3.45	3.41	92.0	90.9	70.0-130			1.17	25
Benzyl Chloride	3.75	3.74	3.67	99.7	97.9	70.0-152			1.89	25
Bromodichloromethane	3.75	3.55	3.52	94.7	93.9	70.0-130			0.849	25
Bromoform	3.75	3.95	3.93	105	105	70.0-130			0.508	25
Bromomethane	3.75	4.16	4.14	111	110	70.0-130			0.482	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815402-1 07/15/22 08:56 • (LCSD) R3815402-2 07/15/22 09:47

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,3-Butadiene	3.75	3.07	3.02	81.9	80.5	70.0-130			1.64	25
Carbon disulfide	3.75	3.48	3.43	92.8	91.5	70.0-130			1.45	25
Carbon tetrachloride	3.75	3.78	3.72	101	99.2	70.0-130			1.60	25
Chlorobenzene	3.75	3.67	3.65	97.9	97.3	70.0-130			0.546	25
Chloroethane	3.75	3.66	3.62	97.6	96.5	70.0-130			1.10	25
Chloroform	3.75	3.55	3.50	94.7	93.3	70.0-130			1.42	25
Chloromethane	3.75	3.11	3.10	82.9	82.7	70.0-130			0.322	25
2-Chlorotoluene	3.75	3.76	3.74	100	99.7	70.0-130			0.533	25
Dibromochloromethane	3.75	3.77	3.76	101	100	70.0-130			0.266	25
1,2-Dibromoethane	3.75	3.74	3.71	99.7	98.9	70.0-130			0.805	25
1,2-Dichlorobenzene	3.75	4.09	4.04	109	108	70.0-130			1.23	25
1,3-Dichlorobenzene	3.75	4.08	4.01	109	107	70.0-130			1.73	25
1,4-Dichlorobenzene	3.75	4.11	4.07	110	109	70.0-130			0.978	25
1,2-Dichloroethane	3.75	3.43	3.44	91.5	91.7	70.0-130			0.291	25
1,1-Dichloroethane	3.75	3.29	3.25	87.7	86.7	70.0-130			1.22	25
1,1-Dichloroethene	3.75	3.43	3.39	91.5	90.4	70.0-130			1.17	25
cis-1,2-Dichloroethene	3.75	3.32	3.25	88.5	86.7	70.0-130			2.13	25
trans-1,2-Dichloroethene	3.75	3.57	3.50	95.2	93.3	70.0-130			1.98	25
1,2-Dichloropropane	3.75	3.24	3.20	86.4	85.3	70.0-130			1.24	25
cis-1,3-Dichloropropene	3.75	3.39	3.37	90.4	89.9	70.0-130			0.592	25
trans-1,3-Dichloropropene	3.75	3.38	3.35	90.1	89.3	70.0-130			0.892	25
1,4-Dioxane	3.75	3.34	3.36	89.1	89.6	70.0-140			0.597	25
Ethanol	3.75	2.77	2.86	73.9	76.3	55.0-148			3.20	25
Ethylbenzene	3.75	3.66	3.62	97.6	96.5	70.0-130			1.10	25
4-Ethyltoluene	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
Trichlorofluoromethane	3.75	4.38	4.31	117	115	70.0-130			1.61	25
Dichlorodifluoromethane	3.75	3.64	3.55	97.1	94.7	64.0-139			2.50	25
1,1,2-Trichlorotrifluoroethane	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
1,2-Dichlorotetrafluoroethane	3.75	3.61	3.55	96.3	94.7	70.0-130			1.68	25
Hexachloro-1,3-butadiene	3.75	4.16	4.10	111	109	70.0-151			1.45	25
Isopropylbenzene	3.75	3.70	3.63	98.7	96.8	70.0-130			1.91	25
Methylene Chloride	3.75	2.90	2.84	77.3	75.7	70.0-130			2.09	25
Methyl Butyl Ketone	3.75	3.10	3.13	82.7	83.5	70.0-149			0.963	25
Methyl Ethyl Ketone	3.75	3.41	3.33	90.9	88.8	70.0-130			2.37	25
4-Methyl-2-pentanone (MIBK)	3.75	3.11	3.03	82.9	80.8	70.0-139			2.61	25
Methyl Methacrylate	3.75	3.45	3.31	92.0	88.3	70.0-130			4.14	25
MTBE	3.75	3.79	3.72	101	99.2	70.0-130			1.86	25
Naphthalene	3.75	3.86	3.80	103	101	70.0-159			1.57	25
2-Propanol	3.75	2.87	2.84	76.5	75.7	70.0-139			1.05	25
Propene	3.75	3.09	3.05	82.4	81.3	64.0-144			1.30	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815402-1 07/15/22 08:56 • (LCSD) R3815402-2 07/15/22 09:47

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	3.66	3.65	97.6	97.3	70.0-130			0.274	25
1,1,2,2-Tetrachloroethane	3.75	3.65	3.62	97.3	96.5	70.0-130			0.825	25
Tetrachloroethylene	3.75	3.98	3.96	106	106	70.0-130			0.504	25
Tetrahydrofuran	3.75	3.03	3.00	80.8	80.0	70.0-137			0.995	25
Toluene	3.75	3.56	3.52	94.9	93.9	70.0-130			1.13	25
1,2,4-Trichlorobenzene	3.75	3.98	3.95	106	105	70.0-160			0.757	25
1,1,1-Trichloroethane	3.75	3.63	3.61	96.8	96.3	70.0-130			0.552	25
1,1,2-Trichloroethane	3.75	3.57	3.57	95.2	95.2	70.0-130			0.000	25
Trichloroethylene	3.75	3.58	3.56	95.5	94.9	70.0-130			0.560	25
1,2,4-Trimethylbenzene	3.75	3.84	3.80	102	101	70.0-130			1.05	25
1,3,5-Trimethylbenzene	3.75	3.91	3.88	104	103	70.0-130			0.770	25
2,2,4-Trimethylpentane	3.75	3.22	3.18	85.9	84.8	70.0-130			1.25	25
Vinyl chloride	3.75	3.20	3.16	85.3	84.3	70.0-130			1.26	25
Vinyl Bromide	3.75	4.25	4.19	113	112	70.0-130			1.42	25
Vinyl acetate	3.75	3.09	2.97	82.4	79.2	70.0-130			3.96	25
m&p-Xylene	7.50	7.32	7.20	97.6	96.0	70.0-130			1.65	25
o-Xylene	3.75	3.58	3.53	95.5	94.1	70.0-130			1.41	25
TPH (GC/MS) Low Fraction	203	198	195	97.5	96.1	70.0-130			1.53	25
(S) 1,4-Bromofluorobenzene				96.1	96.1	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3815440-3 07/15/22 10:36

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	94.1			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815440-1 07/15/22 08:56 • (LCSD) R3815440-2 07/15/22 09:47

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	3.35	3.30	89.3	88.0	70.0-130			1.50	25
Heptane	3.75	2.92	2.86	77.9	76.3	70.0-130			2.08	25
n-Hexane	3.75	3.49	3.31	93.1	88.3	70.0-130			5.29	25
(S) 1,4-Bromofluorobenzene				96.1	96.1	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.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

[illegible]



ANALYTICAL REPORT

July 20, 2022

Ensolum, LLC

Sample Delivery Group: L1515527
Samples Received: 07/15/2022
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 "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1515527-01	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 L1515527-01 Air

Collected by
Shane Diller

Collected date/time
07/13/22 13:15

Received date/time
07/15/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1896359	80	07/17/22 18:30	07/17/22 18:30	CEP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1896811	4000	07/18/22 19:28	07/18/22 19:28	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1897337	40000	07/19/22 16:01	07/19/22 16:01	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.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 07/20/2022 09:38					
Project Name: Levey Well		Laboratory Job Number: L1515527-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1896359, WG1896811 and WG1897337					
# 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: 07/20/2022 09:38					
Project Name: Levey Well		Laboratory Job Number: L1515527-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1896359, WG1896811 and WG1897337					
# 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: 07/20/2022 09:38	
Project Name: Levey Well		Laboratory Job Number: L1515527-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1896359, WG1896811 and WG1897337	
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: 07/13/22 13:15

L151527

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	100	238	ND	ND		80	WG1896359
Allyl chloride	107-05-1	76.53	16.0	50.1	ND	ND		80	WG1896359
Benzene	71-43-2	78.10	16.0	51.1	ND	ND		80	WG1896359
Benzyl Chloride	100-44-7	127	16.0	83.1	ND	ND		80	WG1896359
Bromodichloromethane	75-27-4	164	16.0	107	ND	ND		80	WG1896359
Bromoform	75-25-2	253	48.0	497	ND	ND		80	WG1896359
Bromomethane	74-83-9	94.90	16.0	62.1	ND	ND		80	WG1896359
1,3-Butadiene	106-99-0	54.10	160	354	ND	ND		80	WG1896359
Carbon disulfide	75-15-0	76.10	16.0	49.8	ND	ND		80	WG1896359
Carbon tetrachloride	56-23-5	154	16.0	101	ND	ND		80	WG1896359
Chlorobenzene	108-90-7	113	16.0	73.9	ND	ND		80	WG1896359
Chloroethane	75-00-3	64.50	16.0	42.2	ND	ND		80	WG1896359
Chloroform	67-66-3	119	16.0	77.9	ND	ND		80	WG1896359
Chloromethane	74-87-3	50.50	16.0	33.0	ND	ND		80	WG1896359
2-Chlorotoluene	95-49-8	126	16.0	82.5	ND	ND		80	WG1896359
Cyclohexane	110-82-7	84.20	16.0	55.1	ND	ND		80	WG1896359
Dibromochloromethane	124-48-1	208	16.0	136	ND	ND		80	WG1896359
1,2-Dibromoethane	106-93-4	188	16.0	123	ND	ND		80	WG1896359
1,2-Dichlorobenzene	95-50-1	147	16.0	96.2	ND	ND		80	WG1896359
1,3-Dichlorobenzene	541-73-1	147	16.0	96.2	ND	ND		80	WG1896359
1,4-Dichlorobenzene	106-46-7	147	16.0	96.2	ND	ND		80	WG1896359
1,2-Dichloroethane	107-06-2	99	16.0	64.8	ND	ND		80	WG1896359
1,1-Dichloroethane	75-34-3	98	16.0	64.1	ND	ND		80	WG1896359
1,1-Dichloroethene	75-35-4	96.90	16.0	63.4	ND	ND		80	WG1896359
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	ND	ND		80	WG1896359
trans-1,2-Dichloroethene	156-60-5	96.90	16.0	63.4	ND	ND		80	WG1896359
1,2-Dichloropropane	78-87-5	113	16.0	73.9	ND	ND		80	WG1896359
cis-1,3-Dichloropropene	10061-01-5	111	16.0	72.6	ND	ND		80	WG1896359
trans-1,3-Dichloropropene	10061-02-6	111	16.0	72.6	ND	ND		80	WG1896359
1,4-Dioxane	123-91-1	88.10	16.0	57.7	ND	ND		80	WG1896359
Ethanol	64-17-5	46.10	100	189	ND	ND		80	WG1896359
Ethylbenzene	100-41-4	106	16.0	69.4	ND	ND		80	WG1896359
4-Ethyltoluene	622-96-8	120	16.0	78.5	52.6	258		80	WG1896359
Trichlorofluoromethane	75-69-4	137.40	16.0	89.9	ND	ND		80	WG1896359
Dichlorodifluoromethane	75-71-8	120.92	16.0	79.1	ND	ND		80	WG1896359
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	16.0	123	ND	ND		80	WG1896359
1,2-Dichlorotetrafluoroethane	76-14-2	171	16.0	112	ND	ND		80	WG1896359
Heptane	142-82-5	100	800	3270	191000	781000		4000	WG1896811
Hexachloro-1,3-butadiene	87-68-3	261	50.4	538	ND	ND		80	WG1896359
n-Hexane	110-54-3	86.20	25200	88800	1710000	6030000		40000	WG1897337
Isopropylbenzene	98-82-8	120.20	16.0	78.7	ND	ND		80	WG1896359
Methylene Chloride	75-09-2	84.90	16.0	55.6	ND	ND		80	WG1896359
Methyl Butyl Ketone	591-78-6	100	100	409	ND	ND		80	WG1896359
2-Butanone (MEK)	78-93-3	72.10	5000	14700	9530	28100		4000	WG1896811
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	100	409	ND	ND		80	WG1896359
Methyl methacrylate	80-62-6	100.12	16.0	65.5	ND	ND		80	WG1896359
MTBE	1634-04-4	88.10	16.0	57.7	ND	ND		80	WG1896359
Naphthalene	91-20-3	128	50.4	264	ND	ND		80	WG1896359
2-Propanol	67-63-0	60.10	100	246	2700	6640		80	WG1896359
Propene	115-07-1	42.10	100	172	ND	ND		80	WG1896359
Styrene	100-42-5	104	16.0	68.1	ND	ND		80	WG1896359
1,1,2,2-Tetrachloroethane	79-34-5	168	16.0	110	ND	ND		80	WG1896359
Tetrachloroethylene	127-18-4	166	16.0	109	ND	ND		80	WG1896359
Tetrahydrofuran	109-99-9	72.10	16.0	47.2	ND	ND		80	WG1896359
Toluene	108-88-3	92.10	40.0	151	ND	ND		80	WG1896359
1,2,4-Trichlorobenzene	120-82-1	181	50.4	373	ND	ND		80	WG1896359



Collected date/time: 07/13/22 13:15

L1515527

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	16.0	87.0	ND	ND		80	WG1896359
1,1,2-Trichloroethane	79-00-5	133	16.0	87.0	ND	ND		80	WG1896359
Trichloroethylene	79-01-6	131	16.0	85.7	ND	ND		80	WG1896359
1,2,4-Trimethylbenzene	95-63-6	120	16.0	78.5	54.1	266		80	WG1896359
1,3,5-Trimethylbenzene	108-67-8	120	16.0	78.5	127	623		80	WG1896359
2,2,4-Trimethylpentane	540-84-1	114.22	16.0	74.7	ND	ND		80	WG1896359
Vinyl chloride	75-01-4	62.50	16.0	40.9	ND	ND		80	WG1896359
Vinyl Bromide	593-60-2	106.95	16.0	70.0	ND	ND		80	WG1896359
Vinyl acetate	108-05-4	86.10	16.0	56.3	ND	ND		80	WG1896359
m&p-Xylene	1330-20-7	106	32.0	139	ND	ND		80	WG1896359
o-Xylene	95-47-6	106	16.0	69.4	57.9	251		80	WG1896359
TPH (GC/MS) Low Fraction	8006-61-9	101	800000	3300000	5930000	24500000		4000	WG1896811
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.2				WG1896359
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG1896811
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		80.6				WG1897337

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R3815952-2 07/17/22 08:49

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
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	0.175	U	0.0979	0.200

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3815952-2 07/17/22 08:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	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
(S) 1,4-Bromofluorobenzene	93.8			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815952-1 07/17/22 08:12 • (LCSD) R3815952-3 07/17/22 09:31

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.22	4.37	113	117	70.0-130			3.49	25
Allyl Chloride	3.75	4.07	4.24	109	113	70.0-130			4.09	25
Benzene	3.75	4.18	4.38	111	117	70.0-130			4.67	25
Benzyl Chloride	3.75	4.04	4.18	108	111	70.0-152			3.41	25
Bromodichloromethane	3.75	4.14	4.29	110	114	70.0-130			3.56	25
Bromoform	3.75	3.99	4.19	106	112	70.0-130			4.89	25
Bromomethane	3.75	4.06	4.10	108	109	70.0-130			0.980	25
1,3-Butadiene	3.75	3.89	3.96	104	106	70.0-130			1.78	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815952-1 07/17/22 08:12 • (LCSD) R3815952-3 07/17/22 09:31

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	3.75	4.19	4.39	112	117	70.0-130			4.66	25
Carbon tetrachloride	3.75	4.28	4.37	114	117	70.0-130			2.08	25
Chlorobenzene	3.75	4.29	4.40	114	117	70.0-130			2.53	25
Chloroethane	3.75	4.30	4.42	115	118	70.0-130			2.75	25
Chloroform	3.75	4.21	4.37	112	117	70.0-130			3.73	25
Chloromethane	3.75	4.31	4.47	115	119	70.0-130			3.64	25
2-Chlorotoluene	3.75	4.12	4.28	110	114	70.0-130			3.81	25
Cyclohexane	3.75	4.15	4.26	111	114	70.0-130			2.62	25
Dibromochloromethane	3.75	4.22	4.33	113	115	70.0-130			2.57	25
1,2-Dibromoethane	3.75	4.32	4.38	115	117	70.0-130			1.38	25
1,2-Dichlorobenzene	3.75	4.20	4.40	112	117	70.0-130			4.65	25
1,3-Dichlorobenzene	3.75	4.14	4.25	110	113	70.0-130			2.62	25
1,4-Dichlorobenzene	3.75	4.36	4.47	116	119	70.0-130			2.49	25
1,2-Dichloroethane	3.75	4.20	4.28	112	114	70.0-130			1.89	25
1,1-Dichloroethane	3.75	4.32	4.45	115	119	70.0-130			2.96	25
1,1-Dichloroethene	3.75	4.23	4.34	113	116	70.0-130			2.57	25
cis-1,2-Dichloroethene	3.75	3.88	3.97	103	106	70.0-130			2.29	25
trans-1,2-Dichloroethene	3.75	4.24	4.37	113	117	70.0-130			3.02	25
1,2-Dichloropropane	3.75	4.31	4.36	115	116	70.0-130			1.15	25
cis-1,3-Dichloropropene	3.75	4.05	4.22	108	113	70.0-130			4.11	25
trans-1,3-Dichloropropene	3.75	4.14	4.27	110	114	70.0-130			3.09	25
1,4-Dioxane	3.75	3.99	4.07	106	109	70.0-140			1.99	25
Ethanol	3.75	3.76	4.20	100	112	55.0-148			11.1	25
Ethylbenzene	3.75	4.05	4.15	108	111	70.0-130			2.44	25
4-Ethyltoluene	3.75	4.13	4.27	110	114	70.0-130			3.33	25
Trichlorofluoromethane	3.75	4.36	4.59	116	122	70.0-130			5.14	25
Dichlorodifluoromethane	3.75	4.35	4.49	116	120	64.0-139			3.17	25
1,1,2-Trichlorotrifluoroethane	3.75	4.37	4.48	117	119	70.0-130			2.49	25
1,2-Dichlorotetrafluoroethane	3.75	4.25	4.46	113	119	70.0-130			4.82	25
Hexachloro-1,3-butadiene	3.75	4.29	4.42	114	118	70.0-151			2.99	25
Isopropylbenzene	3.75	4.09	4.24	109	113	70.0-130			3.60	25
Methylene Chloride	3.75	3.65	3.67	97.3	97.9	70.0-130			0.546	25
Methyl Butyl Ketone	3.75	4.18	4.25	111	113	70.0-149			1.66	25
4-Methyl-2-pentanone (MIBK)	3.75	4.04	4.20	108	112	70.0-139			3.88	25
Methyl Methacrylate	3.75	4.05	4.15	108	111	70.0-130			2.44	25
MTBE	3.75	4.03	4.17	107	111	70.0-130			3.41	25
Naphthalene	3.75	4.39	4.37	117	117	70.0-159			0.457	25
2-Propanol	3.75	4.02	4.15	107	111	70.0-139			3.18	25
Propene	3.75	4.27	4.61	114	123	64.0-144			7.66	25
Styrene	3.75	4.15	4.26	111	114	70.0-130			2.62	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3815952-1 07/17/22 08:12 • (LCSD) R3815952-3 07/17/22 09:31

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	3.75	4.12	4.27	110	114	70.0-130			3.58	25
Tetrachloroethylene	3.75	4.31	4.45	115	119	70.0-130			3.20	25
Tetrahydrofuran	3.75	3.95	4.14	105	110	70.0-137			4.70	25
Toluene	3.75	4.18	4.26	111	114	70.0-130			1.90	25
1,2,4-Trichlorobenzene	3.75	4.34	4.39	116	117	70.0-160			1.15	25
1,1,1-Trichloroethane	3.75	4.24	4.32	113	115	70.0-130			1.87	25
1,1,2-Trichloroethane	3.75	4.23	4.30	113	115	70.0-130			1.64	25
Trichloroethylene	3.75	4.22	4.36	113	116	70.0-130			3.26	25
1,2,4-Trimethylbenzene	3.75	4.04	4.20	108	112	70.0-130			3.88	25
1,3,5-Trimethylbenzene	3.75	4.07	4.23	109	113	70.0-130			3.86	25
2,2,4-Trimethylpentane	3.75	4.16	4.27	111	114	70.0-130			2.61	25
Vinyl chloride	3.75	4.24	4.34	113	116	70.0-130			2.33	25
Vinyl Bromide	3.75	4.36	4.49	116	120	70.0-130			2.94	25
Vinyl acetate	3.75	3.85	3.92	103	105	70.0-130			1.80	25
m&p-Xylene	7.50	8.11	8.33	108	111	70.0-130			2.68	25
o-Xylene	3.75	4.01	4.08	107	109	70.0-130			1.73	25
(S) 1,4-Bromofluorobenzene				99.7	98.4	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1515527-01

Method Blank (MB)

(MB) R3816121-3 07/18/22 10:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Heptane	U		0.104	0.200
2-Butanone (MEK)	U		0.0814	1.25
TPH (GC/MS) Low Fraction	53.7	⌵	39.7	200
(S) 1,4-Bromofluorobenzene	95.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3816121-1 07/18/22 09:07 • (LCSD) R3816121-2 07/18/22 09:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Heptane	3.75	4.01	4.01	107	107	70.0-130			0.000	25
Methyl Ethyl Ketone	3.75	3.82	3.88	102	103	70.0-130			1.56	25
TPH (GC/MS) Low Fraction	203	237	240	117	118	70.0-130			1.26	25
(S) 1,4-Bromofluorobenzene				98.6	99.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3816982-3 07/19/22 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	84.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3816982-1 07/19/22 08:42 • (LCSD) R3816982-2 07/19/22 09:24

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
n-Hexane	3.75	3.43	3.45	91.5	92.0	70.0-130			0.581	25
(S) 1,4-Bromofluorobenzene				87.9	88.1	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.

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

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



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ANALYTICAL REPORT

July 25, 2022

Ensolum, LLC

Sample Delivery Group: L1516943
Samples Received: 07/20/2022
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

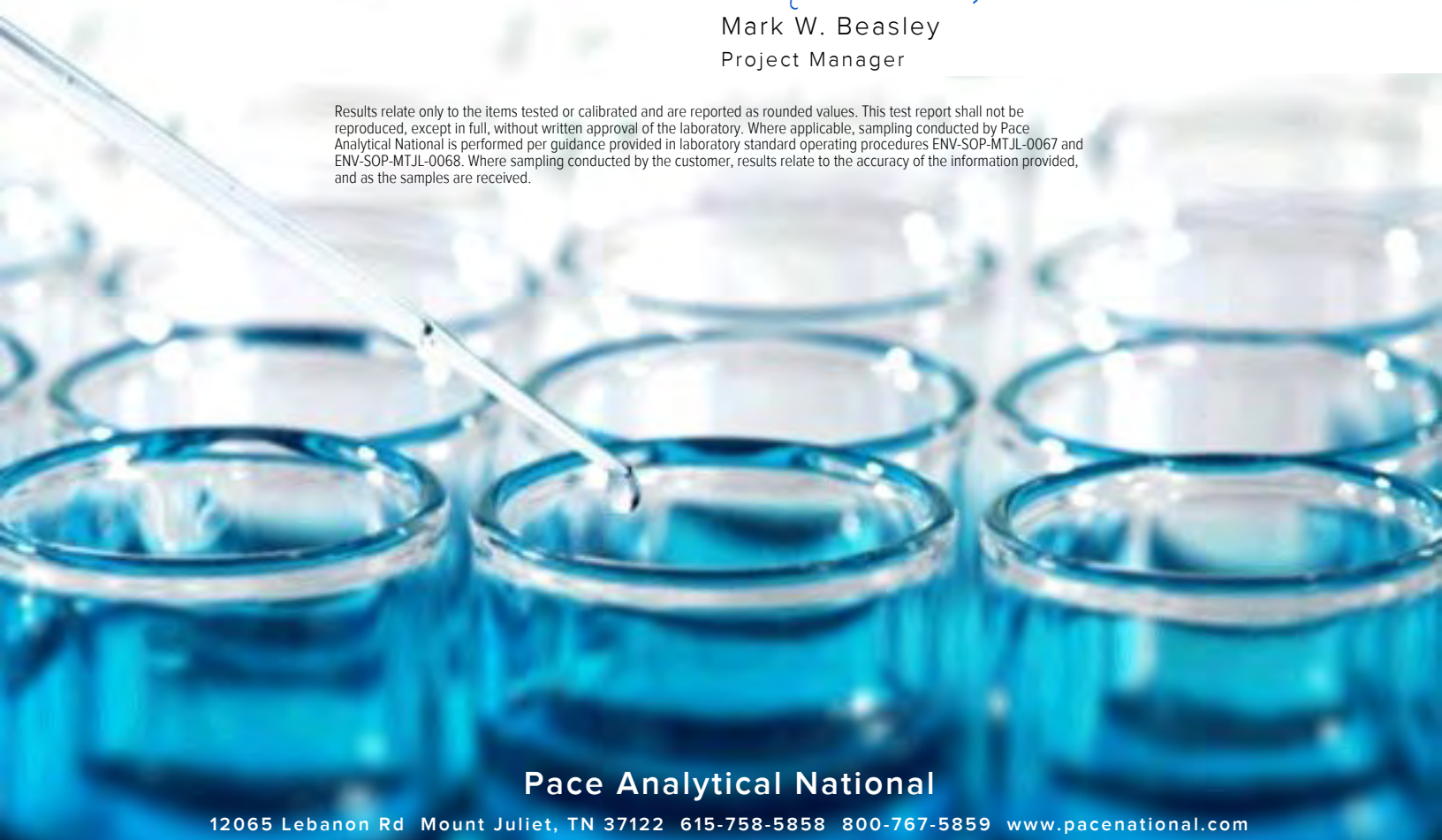


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1516943-01	9	⁶ Sr
LEVEY WELL L1516943-02	11	
LEVEY WELL L1516943-07	13	⁷ Qc
Qc: Quality Control Summary	15	⁸ Gl
Volatile Organic Compounds (MS) by Method TO-15	15	
Gl: Glossary of Terms	20	⁹ Al
Al: Accreditations & Locations	21	
Sc: Sample Chain of Custody	22	¹⁰ Sc

LEVEY WELL L1516943-01 Air

Collected by
Shane Diller

Collected date/time
07/18/22 11:35

Received date/time
07/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1899366	400	07/22/22 12:22	07/22/22 12:22	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1899767	40000	07/23/22 13:59	07/23/22 13:59	FKG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1516943-02 Air

Collected by
Shane Diller

Collected date/time
07/18/22 13:55

Received date/time
07/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1899366	20	07/22/22 13:04	07/22/22 13:04	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1899767	400	07/23/22 13:23	07/23/22 13:23	FKG	Mt. Juliet, TN

LEVEY WELL L1516943-07 Air

Collected by
Shane Diller

Collected date/time
07/18/22 16:25

Received date/time
07/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1899366	20	07/22/22 20:32	07/22/22 20:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1899767	100	07/23/22 10:55	07/23/22 10:55	FKG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 07/25/2022 11:59				
Project Name: Levey Well			Laboratory Job Number: L1516943-01, 02 and 07				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1899366 and WG1899767				
# 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: 07/25/2022 11:59				
Project Name: Levey Well			Laboratory Job Number: L1516943-01, 02 and 07				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1899366 and WG1899767				
# 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: 07/25/2022 11:59	
Project Name: Levey Well		Laboratory Job Number: L1516943-01, 02 and 07	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1899366 and WG1899767	
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: 07/18/22 11:35

L1516943

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	500	1190	9270	22000		400	WG1899366
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG1899366
Benzene	71-43-2	78.10	80.0	256	ND	ND		400	WG1899366
Benzyl Chloride	100-44-7	127	80.0	416	ND	ND		400	WG1899366
Bromodichloromethane	75-27-4	164	80.0	537	ND	ND		400	WG1899366
Bromoform	75-25-2	253	240	2480	ND	ND		400	WG1899366
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG1899366
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG1899366
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG1899366
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG1899366
Chlorobenzene	108-90-7	113	80.0	370	ND	ND		400	WG1899366
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG1899366
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG1899366
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG1899366
2-Chlorotoluene	95-49-8	126	80.0	412	ND	ND		400	WG1899366
Cyclohexane	110-82-7	84.20	8000	27600	289000	995000		40000	WG1899767
Dibromochloromethane	124-48-1	208	80.0	681	ND	ND		400	WG1899366
1,2-Dibromoethane	106-93-4	188	80.0	615	ND	ND		400	WG1899366
1,2-Dichlorobenzene	95-50-1	147	80.0	481	ND	ND		400	WG1899366
1,3-Dichlorobenzene	541-73-1	147	80.0	481	ND	ND		400	WG1899366
1,4-Dichlorobenzene	106-46-7	147	80.0	481	ND	ND		400	WG1899366
1,2-Dichloroethane	107-06-2	99	80.0	324	ND	ND		400	WG1899366
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG1899366
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG1899366
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG1899366
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG1899366
1,2-Dichloropropane	78-87-5	113	80.0	370	ND	ND		400	WG1899366
cis-1,3-Dichloropropene	10061-01-5	111	80.0	363	ND	ND		400	WG1899366
trans-1,3-Dichloropropene	10061-02-6	111	80.0	363	ND	ND		400	WG1899366
1,4-Dioxane	123-91-1	88.10	80.0	288	ND	ND		400	WG1899366
Ethanol	64-17-5	46.10	500	943	ND	ND		400	WG1899366
Ethylbenzene	100-41-4	106	80.0	347	ND	ND		400	WG1899366
4-Ethyltoluene	622-96-8	120	80.0	393	97.5	479		400	WG1899366
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG1899366
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG1899366
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG1899366
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG1899366
Heptane	142-82-5	100	8000	32700	250000	1020000		40000	WG1899767
Hexachloro-1,3-butadiene	87-68-3	261	252	2690	ND	ND		400	WG1899366
n-Hexane	110-54-3	86.20	25200	88800	3500000	12300000		40000	WG1899767
Isopropylbenzene	98-82-8	120.20	80.0	393	ND	ND		400	WG1899366
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG1899366
Methyl Butyl Ketone	591-78-6	100	500	2040	ND	ND		400	WG1899366
2-Butanone (MEK)	78-93-3	72.10	500	1470	6520	19200		400	WG1899366
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	500	2050	ND	ND		400	WG1899366
Methyl methacrylate	80-62-6	100.12	80.0	328	ND	ND		400	WG1899366
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG1899366
Naphthalene	91-20-3	128	252	1320	ND	ND		400	WG1899366
2-Propanol	67-63-0	60.10	500	1230	5670	13900		400	WG1899366
Propene	115-07-1	42.10	500	861	ND	ND		400	WG1899366
Styrene	100-42-5	104	80.0	340	ND	ND		400	WG1899366
1,1,2,2-Tetrachloroethane	79-34-5	168	80.0	550	ND	ND		400	WG1899366
Tetrachloroethylene	127-18-4	166	80.0	543	ND	ND		400	WG1899366
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG1899366
Toluene	108-88-3	92.10	200	753	ND	ND		400	WG1899366
1,2,4-Trichlorobenzene	120-82-1	181	252	1870	ND	ND		400	WG1899366

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/18/22 11:35

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	80.0	435	ND	ND		400	WG1899366
1,1,2-Trichloroethane	79-00-5	133	80.0	435	ND	ND		400	WG1899366
Trichloroethylene	79-01-6	131	80.0	429	ND	ND		400	WG1899366
1,2,4-Trimethylbenzene	95-63-6	120	80.0	393	ND	ND		400	WG1899366
1,3,5-Trimethylbenzene	108-67-8	120	80.0	393	136	667		400	WG1899366
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG1899366
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG1899366
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG1899366
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG1899366
m&p-Xylene	1330-20-7	106	160	694	ND	ND		400	WG1899366
o-Xylene	95-47-6	106	80.0	347	ND	ND		400	WG1899366
TPH (GC/MS) Low Fraction	8006-61-9	101	8000000	33000000	11300000	46700000		40000	WG1899767
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.2				WG1899366
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.0				WG1899767

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 07/18/22 13:55

L1516943

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	150	356		20	WG1899366
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1899366
Benzene	71-43-2	78.10	4.00	12.8	217	693		20	WG1899366
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1899366
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1899366
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1899366
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1899366
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1899366
Carbon disulfide	75-15-0	76.10	4.00	12.4	4.74	14.8		20	WG1899366
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1899366
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1899366
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1899366
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1899366
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1899366
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1899366
Cyclohexane	110-82-7	84.20	4.00	13.8	1270	4370		20	WG1899366
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1899366
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1899366
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1899366
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1899366
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1899366
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1899366
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1899366
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1899366
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1899366
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1899366
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1899366
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1899366
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1899366
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1899366
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1899366
Ethylbenzene	100-41-4	106	4.00	17.3	186	806		20	WG1899366
4-Ethyltoluene	622-96-8	120	4.00	19.6	27.6	135		20	WG1899366
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1899366
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1899366
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1899366
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1899366
Heptane	142-82-5	100	80.0	327	961	3930		400	WG1899767
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1899366
n-Hexane	110-54-3	86.20	252	888	6810	24000		400	WG1899767
Isopropylbenzene	98-82-8	120.20	4.00	19.7	10.6	52.1		20	WG1899366
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1899366
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1899366
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	123	363		20	WG1899366
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1899366
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1899366
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1899366
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1899366
2-Propanol	67-63-0	60.10	25.0	61.5	53.4	131		20	WG1899366
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1899366
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1899366
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1899366
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1899366
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1899366
Toluene	108-88-3	92.10	10.0	37.7	592	2230		20	WG1899366
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1899366

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/18/22 13:55

L1516943

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	WG1899366
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1899366
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1899366
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	31.1	153		20	WG1899366
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	32.8	161		20	WG1899366
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1899366
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1899366
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1899366
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1899366
m&p-Xylene	1330-20-7	106	8.00	34.7	114	494		20	WG1899366
o-Xylene	95-47-6	106	4.00	17.3	39.1	170		20	WG1899366
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	62500	258000		20	WG1899366
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.1				WG1899366
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG1899767

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Collected date/time: 07/18/22 16:25

L1516943

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	144	342		20	WG1899366
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1899366
Benzene	71-43-2	78.10	4.00	12.8	ND	ND		20	WG1899366
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1899366
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1899366
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1899366
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1899366
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1899366
Carbon disulfide	75-15-0	76.10	4.00	12.4	4.86	15.1		20	WG1899366
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1899366
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1899366
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1899366
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG1899366
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1899366
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1899366
Cyclohexane	110-82-7	84.20	4.00	13.8	732	2520		20	WG1899366
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1899366
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1899366
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1899366
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1899366
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1899366
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1899366
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG1899366
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG1899366
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG1899366
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG1899366
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1899366
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1899366
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1899366
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1899366
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		20	WG1899366
Ethylbenzene	100-41-4	106	4.00	17.3	8.26	35.8		20	WG1899366
4-Ethyltoluene	622-96-8	120	4.00	19.6	5.57	27.3		20	WG1899366
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1899366
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1899366
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG1899366
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1899366
Heptane	142-82-5	100	4.00	16.4	1130	4620		20	WG1899366
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1899366
n-Hexane	110-54-3	86.20	63.0	222	5280	18600		100	WG1899767
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1899366
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1899366
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1899366
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	77.8	229		20	WG1899366
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1899366
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1899366
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1899366
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1899366
2-Propanol	67-63-0	60.10	25.0	61.5	170	418		20	WG1899366
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG1899366
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1899366
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1899366
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG1899366
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1899366
Toluene	108-88-3	92.10	10.0	37.7	ND	ND		20	WG1899366
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1899366



Collected date/time: 07/18/22 16:25

L1516943

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	WG1899366
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1899366
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG1899366
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	10.6	52.0		20	WG1899366
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	11.8	57.9		20	WG1899366
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG1899366
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1899366
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1899366
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1899366
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1899366
o-Xylene	95-47-6	106	4.00	17.3	4.38	19.0		20	WG1899366
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	31600	131000		20	WG1899366
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.7				WG1899366
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.8				WG1899767

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1516943-01.02.07

Method Blank (MB)

(MB) R3818235-3 07/22/22 10:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	0.0602	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

L1516943-01,02,07

Method Blank (MB)

(MB) R3818235-3 07/22/22 10:04

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	0.230	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	95.2			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818235-1 07/22/22 08:37 • (LCSD) R3818235-2 07/22/22 09:21

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	3.66	3.59	97.6	95.7	70.0-130			1.93	25
Allyl Chloride	3.75	4.34	3.98	116	106	70.0-130			8.65	25
Benzene	3.75	4.05	3.95	108	105	70.0-130			2.50	25
Benzyl Chloride	3.75	4.27	4.14	114	110	70.0-152			3.09	25
Bromodichloromethane	3.75	4.00	4.04	107	108	70.0-130			0.995	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818235-1 07/22/22 08:37 • (LCSD) R3818235-2 07/22/22 09:21

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	4.10	4.03	109	107	70.0-130			1.72	25
Bromomethane	3.75	4.00	4.02	107	107	70.0-130			0.499	25
1,3-Butadiene	3.75	3.86	3.92	103	105	70.0-130			1.54	25
Carbon disulfide	3.75	4.56	4.48	122	119	70.0-130			1.77	25
Carbon tetrachloride	3.75	4.02	4.00	107	107	70.0-130			0.499	25
Chlorobenzene	3.75	4.08	4.03	109	107	70.0-130			1.23	25
Chloroethane	3.75	4.15	4.09	111	109	70.0-130			1.46	25
Chloroform	3.75	3.95	3.96	105	106	70.0-130			0.253	25
Chloromethane	3.75	3.93	3.97	105	106	70.0-130			1.01	25
2-Chlorotoluene	3.75	4.05	4.03	108	107	70.0-130			0.495	25
Cyclohexane	3.75	4.04	3.95	108	105	70.0-130			2.25	25
Dibromochloromethane	3.75	4.09	4.05	109	108	70.0-130			0.983	25
1,2-Dibromoethane	3.75	4.08	4.08	109	109	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	4.09	4.00	109	107	70.0-130			2.22	25
1,3-Dichlorobenzene	3.75	4.11	3.99	110	106	70.0-130			2.96	25
1,4-Dichlorobenzene	3.75	4.04	3.99	108	106	70.0-130			1.25	25
1,2-Dichloroethane	3.75	4.07	3.96	109	106	70.0-130			2.74	25
1,1-Dichloroethane	3.75	4.03	3.98	107	106	70.0-130			1.25	25
1,1-Dichloroethene	3.75	3.88	3.85	103	103	70.0-130			0.776	25
cis-1,2-Dichloroethene	3.75	3.96	3.91	106	104	70.0-130			1.27	25
trans-1,2-Dichloroethene	3.75	4.06	3.98	108	106	70.0-130			1.99	25
1,2-Dichloropropane	3.75	4.00	4.05	107	108	70.0-130			1.24	25
cis-1,3-Dichloropropene	3.75	4.04	4.01	108	107	70.0-130			0.745	25
trans-1,3-Dichloropropene	3.75	4.05	4.04	108	108	70.0-130			0.247	25
1,4-Dioxane	3.75	4.04	4.04	108	108	70.0-140			0.000	25
Ethanol	3.75	4.05	4.20	108	112	55.0-148			3.64	25
Ethylbenzene	3.75	4.08	4.04	109	108	70.0-130			0.985	25
4-Ethyltoluene	3.75	4.03	3.97	107	106	70.0-130			1.50	25
Trichlorofluoromethane	3.75	4.10	4.00	109	107	70.0-130			2.47	25
Dichlorodifluoromethane	3.75	3.87	3.82	103	102	64.0-139			1.30	25
1,1,2-Trichlorotrifluoroethane	3.75	4.06	3.99	108	106	70.0-130			1.74	25
1,2-Dichlorotetrafluoroethane	3.75	4.19	4.19	112	112	70.0-130			0.000	25
Heptane	3.75	3.77	3.82	101	102	70.0-130			1.32	25
Hexachloro-1,3-butadiene	3.75	4.21	4.15	112	111	70.0-151			1.44	25
Isopropylbenzene	3.75	3.96	4.02	106	107	70.0-130			1.50	25
Methylene Chloride	3.75	4.24	4.26	113	114	70.0-130			0.471	25
Methyl Butyl Ketone	3.75	4.10	4.08	109	109	70.0-149			0.489	25
Methyl Ethyl Ketone	3.75	3.96	3.96	106	106	70.0-130			0.000	25
4-Methyl-2-pentanone (MIBK)	3.75	4.07	4.05	109	108	70.0-139			0.493	25
Methyl Methacrylate	3.75	4.04	3.86	108	103	70.0-130			4.56	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818235-1 07/22/22 08:37 • (LCSD) R3818235-2 07/22/22 09:21

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 %
MTBE	3.75	3.90	3.89	104	104	70.0-130			0.257	25
Naphthalene	3.75	4.22	4.21	113	112	70.0-159			0.237	25
2-Propanol	3.75	3.87	3.85	103	103	70.0-139			0.518	25
Propene	3.75	3.97	3.85	106	103	64.0-144			3.07	25
Styrene	3.75	4.14	4.00	110	107	70.0-130			3.44	25
1,1,2,2-Tetrachloroethane	3.75	4.05	4.06	108	108	70.0-130			0.247	25
Tetrachloroethylene	3.75	4.07	4.10	109	109	70.0-130			0.734	25
Tetrahydrofuran	3.75	4.04	3.92	108	105	70.0-137			3.02	25
Toluene	3.75	3.95	3.94	105	105	70.0-130			0.253	25
1,2,4-Trichlorobenzene	3.75	4.30	4.35	115	116	70.0-160			1.16	25
1,1,1-Trichloroethane	3.75	4.01	3.94	107	105	70.0-130			1.76	25
1,1,2-Trichloroethane	3.75	4.09	4.10	109	109	70.0-130			0.244	25
Trichloroethylene	3.75	4.07	4.00	109	107	70.0-130			1.73	25
1,2,4-Trimethylbenzene	3.75	4.11	4.02	110	107	70.0-130			2.21	25
1,3,5-Trimethylbenzene	3.75	4.08	4.02	109	107	70.0-130			1.48	25
2,2,4-Trimethylpentane	3.75	3.95	3.93	105	105	70.0-130			0.508	25
Vinyl chloride	3.75	3.99	3.89	106	104	70.0-130			2.54	25
Vinyl Bromide	3.75	4.07	3.92	109	105	70.0-130			3.75	25
Vinyl acetate	3.75	3.81	3.99	102	106	70.0-130			4.62	25
m&p-Xylene	7.50	8.18	7.94	109	106	70.0-130			2.98	25
o-Xylene	3.75	4.01	3.91	107	104	70.0-130			2.53	25
TPH (GC/MS) Low Fraction	203	237	236	117	116	70.0-130			0.423	25
(S) 1,4-Bromofluorobenzene				97.0	97.0	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3818550-3 07/23/22 06:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	96.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818550-1 07/23/22 05:32 • (LCSD) R3818550-2 07/23/22 06:10

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	3.97	3.95	106	105	70.0-130			0.505	25
Heptane	3.75	2.67	2.89	71.2	77.1	70.0-130			7.91	25
n-Hexane	3.75	4.00	4.06	107	108	70.0-130			1.49	25
TPH (GC/MS) Low Fraction	203	232	232	114	114	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				99.6	99.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Released to Imaging: 3/20/2024 4:42:03 PM



ANALYTICAL REPORT

July 26, 2022

Ensolum, LLC

Sample Delivery Group: L1517922
Samples Received: 07/22/2022
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 "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1517922-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1517922-01 Air

Collected by
Shane Diller

Collected date/time
07/20/22 13:35

Received date/time
07/22/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1899767	2000	07/23/22 22:38	07/23/22 22:38	MBF	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 07/26/2022 16:23					
Project Name: Levey Well		Laboratory Job Number: L1517922-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1899767					
#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: 07/26/2022 16:23					
Project Name: Levey Well		Laboratory Job Number: L1517922-01					
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1899767					
# 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: 07/26/2022 16:23	
Project Name: Levey Well		Laboratory Job Number: L1517922-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1899767	
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: 07/20/22 13:35

L1517922

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	5710	13600		2000	WG1899767
Allyl chloride	107-05-1	76.53	400	1250	ND	ND		2000	WG1899767
Benzene	71-43-2	78.10	400	1280	ND	ND		2000	WG1899767
Benzyl Chloride	100-44-7	127	400	2080	ND	ND		2000	WG1899767
Bromodichloromethane	75-27-4	164	400	2680	ND	ND		2000	WG1899767
Bromoform	75-25-2	253	1200	12400	ND	ND		2000	WG1899767
Bromomethane	74-83-9	94.90	400	1550	ND	ND		2000	WG1899767
1,3-Butadiene	106-99-0	54.10	4000	8850	ND	ND		2000	WG1899767
Carbon disulfide	75-15-0	76.10	400	1240	ND	ND		2000	WG1899767
Carbon tetrachloride	56-23-5	154	400	2520	ND	ND		2000	WG1899767
Chlorobenzene	108-90-7	113	400	1850	ND	ND		2000	WG1899767
Chloroethane	75-00-3	64.50	400	1060	ND	ND		2000	WG1899767
Chloroform	67-66-3	119	400	1950	ND	ND		2000	WG1899767
Chloromethane	74-87-3	50.50	400	826	ND	ND		2000	WG1899767
2-Chlorotoluene	95-49-8	126	400	2060	ND	ND		2000	WG1899767
Cyclohexane	110-82-7	84.20	400	1380	24000	82700		2000	WG1899767
Dibromochloromethane	124-48-1	208	400	3400	ND	ND		2000	WG1899767
1,2-Dibromoethane	106-93-4	188	400	3080	ND	ND		2000	WG1899767
1,2-Dichlorobenzene	95-50-1	147	400	2400	ND	ND		2000	WG1899767
1,3-Dichlorobenzene	541-73-1	147	400	2400	ND	ND		2000	WG1899767
1,4-Dichlorobenzene	106-46-7	147	400	2400	ND	ND		2000	WG1899767
1,2-Dichloroethane	107-06-2	99	400	1620	ND	ND		2000	WG1899767
1,1-Dichloroethane	75-34-3	98	400	1600	ND	ND		2000	WG1899767
1,1-Dichloroethene	75-35-4	96.90	400	1590	ND	ND		2000	WG1899767
cis-1,2-Dichloroethene	156-59-2	96.90	400	1590	ND	ND		2000	WG1899767
trans-1,2-Dichloroethene	156-60-5	96.90	400	1590	ND	ND		2000	WG1899767
1,2-Dichloropropane	78-87-5	113	400	1850	ND	ND		2000	WG1899767
cis-1,3-Dichloropropene	10061-01-5	111	400	1820	ND	ND		2000	WG1899767
trans-1,3-Dichloropropene	10061-02-6	111	400	1820	ND	ND		2000	WG1899767
1,4-Dioxane	123-91-1	88.10	400	1440	ND	ND		2000	WG1899767
Ethanol	64-17-5	46.10	2500	4710	2520	4750		2000	WG1899767
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG1899767
4-Ethyltoluene	622-96-8	120	400	1960	ND	ND		2000	WG1899767
Trichlorofluoromethane	75-69-4	137.40	400	2250	ND	ND		2000	WG1899767
Dichlorodifluoromethane	75-71-8	120.92	400	1980	ND	ND		2000	WG1899767
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	400	3070	ND	ND		2000	WG1899767
1,2-Dichlorotetrafluoroethane	76-14-2	171	400	2800	ND	ND		2000	WG1899767
Heptane	142-82-5	100	400	1640	26100	107000		2000	WG1899767
Hexachloro-1,3-butadiene	87-68-3	261	1260	13500	ND	ND		2000	WG1899767
n-Hexane	110-54-3	86.20	1260	4440	173000	610000		2000	WG1899767
Isopropylbenzene	98-82-8	120.20	400	1970	ND	ND		2000	WG1899767
Methylene Chloride	75-09-2	84.90	400	1390	ND	ND		2000	WG1899767
Methyl Butyl Ketone	591-78-6	100	2500	10200	ND	ND		2000	WG1899767
2-Butanone (MEK)	78-93-3	72.10	2500	7370	ND	ND		2000	WG1899767
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2500	10200	ND	ND		2000	WG1899767
Methyl methacrylate	80-62-6	100.12	400	1640	ND	ND		2000	WG1899767
MTBE	1634-04-4	88.10	400	1440	ND	ND		2000	WG1899767
Naphthalene	91-20-3	128	1260	6600	ND	ND		2000	WG1899767
2-Propanol	67-63-0	60.10	2500	6150	17700	43500		2000	WG1899767
Propene	115-07-1	42.10	2500	4300	ND	ND		2000	WG1899767
Styrene	100-42-5	104	400	1700	ND	ND		2000	WG1899767
1,1,2,2-Tetrachloroethane	79-34-5	168	400	2750	ND	ND		2000	WG1899767
Tetrachloroethylene	127-18-4	166	400	2720	575	3900		2000	WG1899767
Tetrahydrofuran	109-99-9	72.10	400	1180	ND	ND		2000	WG1899767
Toluene	108-88-3	92.10	1000	3770	ND	ND		2000	WG1899767
1,2,4-Trichlorobenzene	120-82-1	181	1260	9330	ND	ND		2000	WG1899767

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/20/22 13:35

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	WG1899767
1,1,2-Trichloroethane	79-00-5	133	400	2180	ND	ND		2000	WG1899767
Trichloroethylene	79-01-6	131	400	2140	ND	ND		2000	WG1899767
1,2,4-Trimethylbenzene	95-63-6	120	400	1960	ND	ND		2000	WG1899767
1,3,5-Trimethylbenzene	108-67-8	120	400	1960	ND	ND		2000	WG1899767
2,2,4-Trimethylpentane	540-84-1	114.22	400	1870	ND	ND		2000	WG1899767
Vinyl chloride	75-01-4	62.50	400	1020	ND	ND		2000	WG1899767
Vinyl Bromide	593-60-2	106.95	400	1750	ND	ND		2000	WG1899767
Vinyl acetate	108-05-4	86.10	400	1410	ND	ND		2000	WG1899767
m&p-Xylene	1330-20-7	106	800	3470	ND	ND		2000	WG1899767
o-Xylene	95-47-6	106	400	1730	ND	ND		2000	WG1899767
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	879000	3630000		2000	WG1899767
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG1899767

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3818550-3 07/23/22 06:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
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

Volatile Organic Compounds (MS) by Method TO-15

L1517922-01

Method Blank (MB)

(MB) R3818550-3 07/23/22 06:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	0.153	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	0.282	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	96.4			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818550-1 07/23/22 05:32 • (LCSD) R3818550-2 07/23/22 06:10

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	3.63	3.71	96.8	98.9	70.0-130			2.18	25
Allyl Chloride	3.75	4.14	4.11	110	110	70.0-130			0.727	25
Benzene	3.75	4.02	4.08	107	109	70.0-130			1.48	25
Benzyl Chloride	3.75	4.08	4.14	109	110	70.0-152			1.46	25

Volatile Organic Compounds (MS) by Method TO-15

L1517922-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818550-1 07/23/22 05:32 • (LCSD) R3818550-2 07/23/22 06:10

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	3.95	4.02	105	107	70.0-130			1.76	25
Bromoform	3.75	3.90	3.92	104	105	70.0-130			0.512	25
Bromomethane	3.75	3.81	4.00	102	107	70.0-130			4.87	25
1,3-Butadiene	3.75	3.95	4.14	105	110	70.0-130			4.70	25
Carbon disulfide	3.75	4.01	4.09	107	109	70.0-130			1.98	25
Carbon tetrachloride	3.75	3.92	3.98	105	106	70.0-130			1.52	25
Chlorobenzene	3.75	3.94	3.98	105	106	70.0-130			1.01	25
Chloroethane	3.75	3.86	4.01	103	107	70.0-130			3.81	25
Chloroform	3.75	3.86	4.00	103	107	70.0-130			3.56	25
Chloromethane	3.75	4.22	4.25	113	113	70.0-130			0.708	25
2-Chlorotoluene	3.75	3.92	3.97	105	106	70.0-130			1.27	25
Cyclohexane	3.75	3.97	3.95	106	105	70.0-130			0.505	25
Dibromochloromethane	3.75	3.91	3.98	104	106	70.0-130			1.77	25
1,2-Dibromoethane	3.75	3.97	4.01	106	107	70.0-130			1.00	25
1,2-Dichlorobenzene	3.75	3.91	3.99	104	106	70.0-130			2.03	25
1,3-Dichlorobenzene	3.75	3.98	4.06	106	108	70.0-130			1.99	25
1,4-Dichlorobenzene	3.75	3.98	4.03	106	107	70.0-130			1.25	25
1,2-Dichloroethane	3.75	3.98	4.09	106	109	70.0-130			2.73	25
1,1-Dichloroethane	3.75	4.04	4.00	108	107	70.0-130			0.995	25
1,1-Dichloroethene	3.75	4.01	4.13	107	110	70.0-130			2.95	25
cis-1,2-Dichloroethene	3.75	3.66	3.79	97.6	101	70.0-130			3.49	25
trans-1,2-Dichloroethene	3.75	4.01	4.08	107	109	70.0-130			1.73	25
1,2-Dichloropropane	3.75	4.09	4.18	109	111	70.0-130			2.18	25
cis-1,3-Dichloropropene	3.75	3.90	3.93	104	105	70.0-130			0.766	25
trans-1,3-Dichloropropene	3.75	3.92	3.98	105	106	70.0-130			1.52	25
1,4-Dioxane	3.75	3.85	3.97	103	106	70.0-140			3.07	25
Ethanol	3.75	3.60	3.87	96.0	103	55.0-148			7.23	25
Ethylbenzene	3.75	3.90	3.95	104	105	70.0-130			1.27	25
4-Ethyltoluene	3.75	3.87	3.99	103	106	70.0-130			3.05	25
Trichlorofluoromethane	3.75	3.92	4.08	105	109	70.0-130			4.00	25
Dichlorodifluoromethane	3.75	4.01	4.06	107	108	64.0-139			1.24	25
1,1,2-Trichlorotrifluoroethane	3.75	3.92	4.01	105	107	70.0-130			2.27	25
1,2-Dichlorotetrafluoroethane	3.75	4.01	4.12	107	110	70.0-130			2.71	25
Heptane	3.75	2.67	2.89	71.2	77.1	70.0-130			7.91	25
Hexachloro-1,3-butadiene	3.75	3.80	3.94	101	105	70.0-151			3.62	25
n-Hexane	3.75	4.00	4.06	107	108	70.0-130			1.49	25
Isopropylbenzene	3.75	3.94	3.95	105	105	70.0-130			0.253	25
Methylene Chloride	3.75	3.59	3.68	95.7	98.1	70.0-130			2.48	25
Methyl Butyl Ketone	3.75	4.13	4.25	110	113	70.0-149			2.86	25
Methyl Ethyl Ketone	3.75	3.89	3.84	104	102	70.0-130			1.29	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3818550-1 07/23/22 05:32 • (LCSD) R3818550-2 07/23/22 06:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.08	4.16	109	111	70.0-139			1.94	25
Methyl Methacrylate	3.75	3.86	3.94	103	105	70.0-130			2.05	25
MTBE	3.75	3.77	3.87	101	103	70.0-130			2.62	25
Naphthalene	3.75	4.14	4.22	110	113	70.0-159			1.91	25
2-Propanol	3.75	3.85	4.01	103	107	70.0-139			4.07	25
Propene	3.75	4.07	4.08	109	109	64.0-144			0.245	25
Styrene	3.75	4.08	4.18	109	111	70.0-130			2.42	25
1,1,2,2-Tetrachloroethane	3.75	3.90	3.95	104	105	70.0-130			1.27	25
Tetrachloroethylene	3.75	3.80	3.90	101	104	70.0-130			2.60	25
Tetrahydrofuran	3.75	3.99	4.06	106	108	70.0-137			1.74	25
Toluene	3.75	3.88	3.94	103	105	70.0-130			1.53	25
1,2,4-Trichlorobenzene	3.75	3.99	4.13	106	110	70.0-160			3.45	25
1,1,1-Trichloroethane	3.75	3.91	3.90	104	104	70.0-130			0.256	25
1,1,2-Trichloroethane	3.75	3.90	4.00	104	107	70.0-130			2.53	25
Trichloroethylene	3.75	3.92	4.01	105	107	70.0-130			2.27	25
1,2,4-Trimethylbenzene	3.75	3.87	3.91	103	104	70.0-130			1.03	25
1,3,5-Trimethylbenzene	3.75	3.99	3.88	106	103	70.0-130			2.80	25
2,2,4-Trimethylpentane	3.75	4.00	4.11	107	110	70.0-130			2.71	25
Vinyl chloride	3.75	4.04	4.14	108	110	70.0-130			2.44	25
Vinyl Bromide	3.75	3.90	3.95	104	105	70.0-130			1.27	25
Vinyl acetate	3.75	3.95	4.01	105	107	70.0-130			1.51	25
m&p-Xylene	7.50	7.94	8.02	106	107	70.0-130			1.00	25
o-Xylene	3.75	3.83	3.85	102	103	70.0-130			0.521	25
TPH (GC/MS) Low Fraction	203	232	232	114	114	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				99.6	99.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Released to Imaging: 3/20/2024 4:42:03 PM



ANALYTICAL REPORT

August 04, 2022

Ensolum, LLC

Sample Delivery Group: L1520291
Samples Received: 07/30/2022
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 "M. Beasley".

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1520291-01	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 L1520291-01 Air

Collected by
Kelly Lowery

Collected date/time
07/27/22 12:38

Received date/time
07/30/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1904252	100	08/02/22 14:53	08/02/22 14:53	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1905513	5000	08/04/22 12:16	08/04/22 12:16	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.



Mark W. Beasley
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 08/04/2022 16:26				
Project Name: Levey Well			Laboratory Job Number: L1520291-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1904252 and WG1905513				
# 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: 08/04/2022 16:26				
Project Name: Levey Well			Laboratory Job Number: L1520291-01				
Reviewer Name: Mark W. Beasley			Prep Batch Number(s): WG1904252 and WG1905513				
# 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: 08/04/2022 16:26	
Project Name: Levey Well		Laboratory Job Number: L1520291-01	
Reviewer Name: Mark W. Beasley		Prep Batch Number(s): WG1904252 and WG1905513	
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: 07/27/22 12:38

L1520291

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	WG1904252
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG1904252
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG1904252
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG1904252
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG1904252
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG1904252
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG1904252
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG1904252
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG1904252
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG1904252
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG1904252
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG1904252
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG1904252
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG1904252
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG1904252
Cyclohexane	110-82-7	84.20	20.0	68.9	1850	6370		100	WG1904252
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG1904252
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG1904252
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG1904252
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG1904252
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG1904252
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG1904252
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG1904252
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG1904252
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG1904252
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG1904252
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG1904252
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG1904252
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG1904252
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG1904252
Ethanol	64-17-5	46.10	125	236	130	245		100	WG1904252
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG1904252
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG1904252
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG1904252
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG1904252
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG1904252
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG1904252
Heptane	142-82-5	100	20.0	81.8	2880	11800		100	WG1904252
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG1904252
n-Hexane	110-54-3	86.20	3150	11100	458000	1610000		5000	WG1905513
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG1904252
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG1904252
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG1904252
2-Butanone (MEK)	78-93-3	72.10	125	369	143	422		100	WG1904252
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG1904252
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG1904252
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG1904252
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG1904252
2-Propanol	67-63-0	60.10	125	307	1190	2930		100	WG1904252
Propene	115-07-1	42.10	125	215	ND	ND		100	WG1904252
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG1904252
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG1904252
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG1904252
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG1904252
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG1904252
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG1904252



Collected date/time: 07/27/22 12:38

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	WG1904252
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG1904252
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG1904252
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG1904252
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG1904252
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG1904252
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG1904252
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG1904252
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG1904252
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG1904252
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG1904252
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	82100	339000		100	WG1904252
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.2				WG1904252
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.0				WG1905513

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3821820-3 08/02/22 09:31

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

L1520291-01

Method Blank (MB)

(MB) R3821820-3 08/02/22 09:31

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	0.203	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	64.3	U	39.7	200
(S) 1,4-Bromofluorobenzene	97.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3821820-1 08/02/22 08:31 • (LCSD) R3821820-2 08/02/22 09:02

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.22	4.07	113	109	70.0-130			3.62	25
Allyl Chloride	3.75	3.90	3.94	104	105	70.0-130			1.02	25
Benzene	3.75	3.93	3.91	105	104	70.0-130			0.510	25
Benzyl Chloride	3.75	4.21	4.15	112	111	70.0-152			1.44	25
Bromodichloromethane	3.75	4.05	4.00	108	107	70.0-130			1.24	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3821820-1 08/02/22 08:31 • (LCSD) R3821820-2 08/02/22 09:02

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	3.75	4.33	4.31	115	115	70.0-130			0.463	25
Bromomethane	3.75	4.18	4.17	111	111	70.0-130			0.240	25
1,3-Butadiene	3.75	4.44	4.45	118	119	70.0-130			0.225	25
Carbon disulfide	3.75	4.15	4.15	111	111	70.0-130			0.000	25
Carbon tetrachloride	3.75	4.04	4.02	108	107	70.0-130			0.496	25
Chlorobenzene	3.75	4.07	4.05	109	108	70.0-130			0.493	25
Chloroethane	3.75	4.24	4.29	113	114	70.0-130			1.17	25
Chloroform	3.75	3.97	3.96	106	106	70.0-130			0.252	25
Chloromethane	3.75	4.10	4.15	109	111	70.0-130			1.21	25
2-Chlorotoluene	3.75	4.12	4.08	110	109	70.0-130			0.976	25
Cyclohexane	3.75	3.91	3.96	104	106	70.0-130			1.27	25
Dibromochloromethane	3.75	4.17	4.16	111	111	70.0-130			0.240	25
1,2-Dibromoethane	3.75	4.10	4.08	109	109	70.0-130			0.489	25
1,2-Dichlorobenzene	3.75	4.20	4.16	112	111	70.0-130			0.957	25
1,3-Dichlorobenzene	3.75	4.26	4.24	114	113	70.0-130			0.471	25
1,4-Dichlorobenzene	3.75	4.26	4.24	114	113	70.0-130			0.471	25
1,2-Dichloroethane	3.75	4.04	4.00	108	107	70.0-130			0.995	25
1,1-Dichloroethane	3.75	3.99	4.01	106	107	70.0-130			0.500	25
1,1-Dichloroethene	3.75	4.10	4.07	109	109	70.0-130			0.734	25
cis-1,2-Dichloroethene	3.75	3.92	3.88	105	103	70.0-130			1.03	25
trans-1,2-Dichloroethene	3.75	4.11	4.07	110	109	70.0-130			0.978	25
1,2-Dichloropropane	3.75	3.96	3.95	106	105	70.0-130			0.253	25
cis-1,3-Dichloropropene	3.75	3.96	3.90	106	104	70.0-130			1.53	25
trans-1,3-Dichloropropene	3.75	3.99	4.00	106	107	70.0-130			0.250	25
1,4-Dioxane	3.75	3.95	3.94	105	105	70.0-140			0.253	25
Ethanol	3.75	4.09	4.23	109	113	55.0-148			3.37	25
Ethylbenzene	3.75	4.05	4.05	108	108	70.0-130			0.000	25
4-Ethyltoluene	3.75	4.25	4.19	113	112	70.0-130			1.42	25
Trichlorofluoromethane	3.75	4.39	4.39	117	117	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	4.24	4.30	113	115	64.0-139			1.41	25
1,1,2-Trichlorotrifluoroethane	3.75	4.13	4.11	110	110	70.0-130			0.485	25
1,2-Dichlorotetrafluoroethane	3.75	4.23	4.28	113	114	70.0-130			1.18	25
Heptane	3.75	4.00	3.97	107	106	70.0-130			0.753	25
Hexachloro-1,3-butadiene	3.75	4.19	4.13	112	110	70.0-151			1.44	25
Isopropylbenzene	3.75	4.12	4.15	110	111	70.0-130			0.726	25
Methylene Chloride	3.75	3.91	3.95	104	105	70.0-130			1.02	25
Methyl Butyl Ketone	3.75	4.04	4.00	108	107	70.0-149			0.995	25
Methyl Ethyl Ketone	3.75	3.93	3.95	105	105	70.0-130			0.508	25
4-Methyl-2-pentanone (MIBK)	3.75	4.20	4.18	112	111	70.0-139			0.477	25
Methyl Methacrylate	3.75	4.01	4.01	107	107	70.0-130			0.000	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3821820-1 08/02/22 08:31 • (LCSD) R3821820-2 08/02/22 09:02

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
MTBE	3.75	4.02	4.01	107	107	70.0-130			0.249	25
Naphthalene	3.75	4.11	4.09	110	109	70.0-159			0.488	25
2-Propanol	3.75	4.34	4.35	116	116	70.0-139			0.230	25
Propene	3.75	3.96	4.00	106	107	64.0-144			1.01	25
Styrene	3.75	4.13	4.15	110	111	70.0-130			0.483	25
1,1,2,2-Tetrachloroethane	3.75	4.21	4.15	112	111	70.0-130			1.44	25
Tetrachloroethylene	3.75	4.20	4.17	112	111	70.0-130			0.717	25
Tetrahydrofuran	3.75	3.87	3.89	103	104	70.0-137			0.515	25
Toluene	3.75	4.04	3.98	108	106	70.0-130			1.50	25
1,2,4-Trichlorobenzene	3.75	4.11	4.06	110	108	70.0-160			1.22	25
1,1,1-Trichloroethane	3.75	4.01	4.00	107	107	70.0-130			0.250	25
1,1,2-Trichloroethane	3.75	4.00	3.98	107	106	70.0-130			0.501	25
Trichloroethylene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
1,2,4-Trimethylbenzene	3.75	4.30	4.25	115	113	70.0-130			1.17	25
1,3,5-Trimethylbenzene	3.75	4.20	4.19	112	112	70.0-130			0.238	25
2,2,4-Trimethylpentane	3.75	3.96	3.94	106	105	70.0-130			0.506	25
Vinyl chloride	3.75	4.22	4.23	113	113	70.0-130			0.237	25
Vinyl Bromide	3.75	4.29	4.36	114	116	70.0-130			1.62	25
Vinyl acetate	3.75	3.88	3.87	103	103	70.0-130			0.258	25
m&p-Xylene	7.50	8.46	8.44	113	113	70.0-130			0.237	25
o-Xylene	3.75	4.24	4.20	113	112	70.0-130			0.948	25
TPH (GC/MS) Low Fraction	203	264	262	130	129	70.0-130			0.760	25
(S) 1,4-Bromofluorobenzene				99.0	98.7	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3822736-3 08/04/22 10:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	95.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3822736-1 08/04/22 08:45 • (LCSD) R3822736-2 08/04/22 09:28

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	3.48	3.37	92.8	89.9	70.0-130			3.21	25
(S) 1,4-Bromofluorobenzene				101	100	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

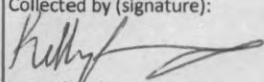
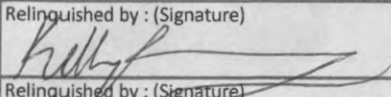
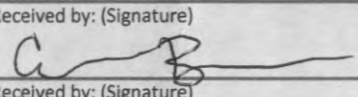
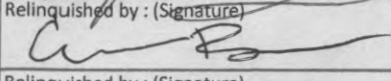
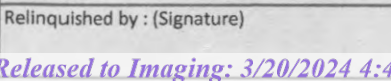
⁶Sr

⁷Qc

⁸Gl

⁹Al

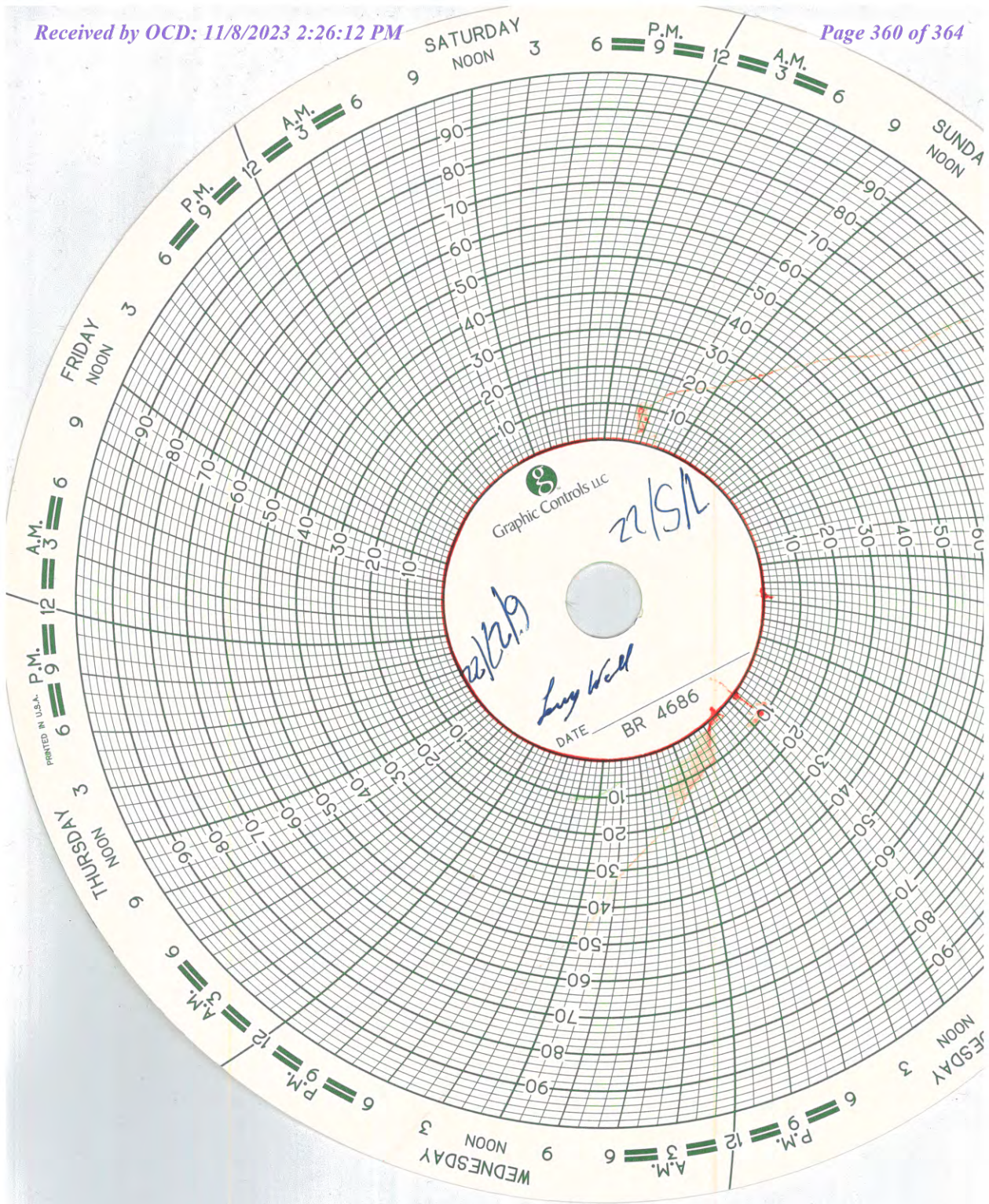
¹⁰Sc

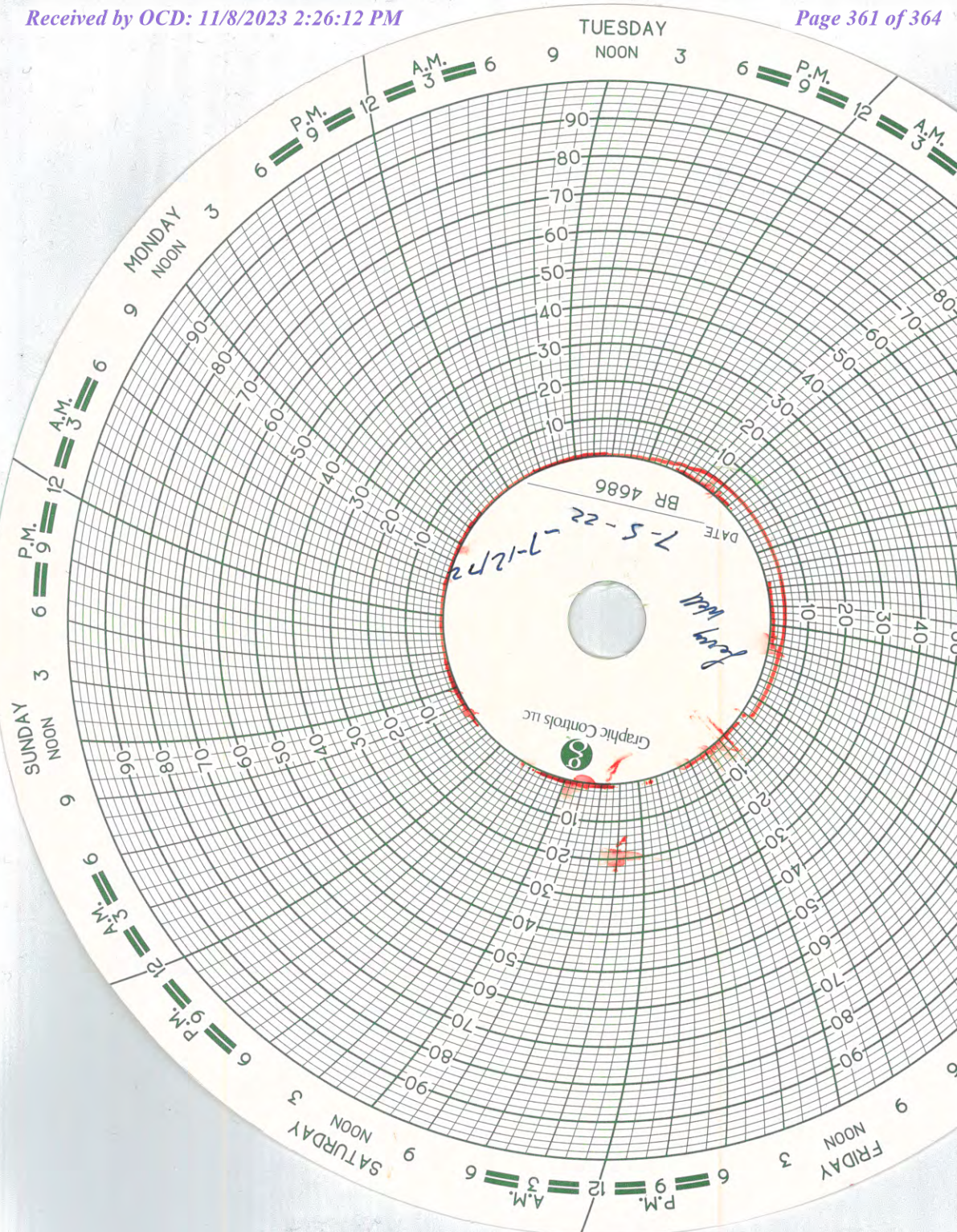
Company Name/Address: Ensolum, LLC 601 N Marienfeld Street, Ste 400 Midland, TX 79701				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Analysis / Container / Preservative				Chain of Custody Page <u>1</u> of <u>1</u>	
Report to: Beaux Jennings				Email To: bjennings@ensolum.com				 Pace Analytical* National Center for Testing & Innovation 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/hubs/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): Kelly Lavery		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 # Date Results Needed									
Immediately Packed on Ice ☒ N ☐ Y				No. of Cntrs									
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	TO-15 Summa						
Levey Well -		G	Air	-	07/27/22	1238							
							X						
* 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 _____					
Relinquished by: (Signature) 		Date: 07/28/2022		Time: 0800		Received by: (Signature) 		Trip Blank Received: Yes/No HCL/MeOH TBR		Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N			
Relinquished by: (Signature) 		Date: 07/29/2022		Time: 800		Received by: (Signature) FedEx		Temp: _____ °C Bottles Received: 1		If preservation required by Login: Date/Time			
Relinquished by: (Signature) 		Date:		Time:		Received for lab by: (Signature) P. Ramsey		Date: 07-30-22 Time: 845		Hold: Condition: NCF / OK			

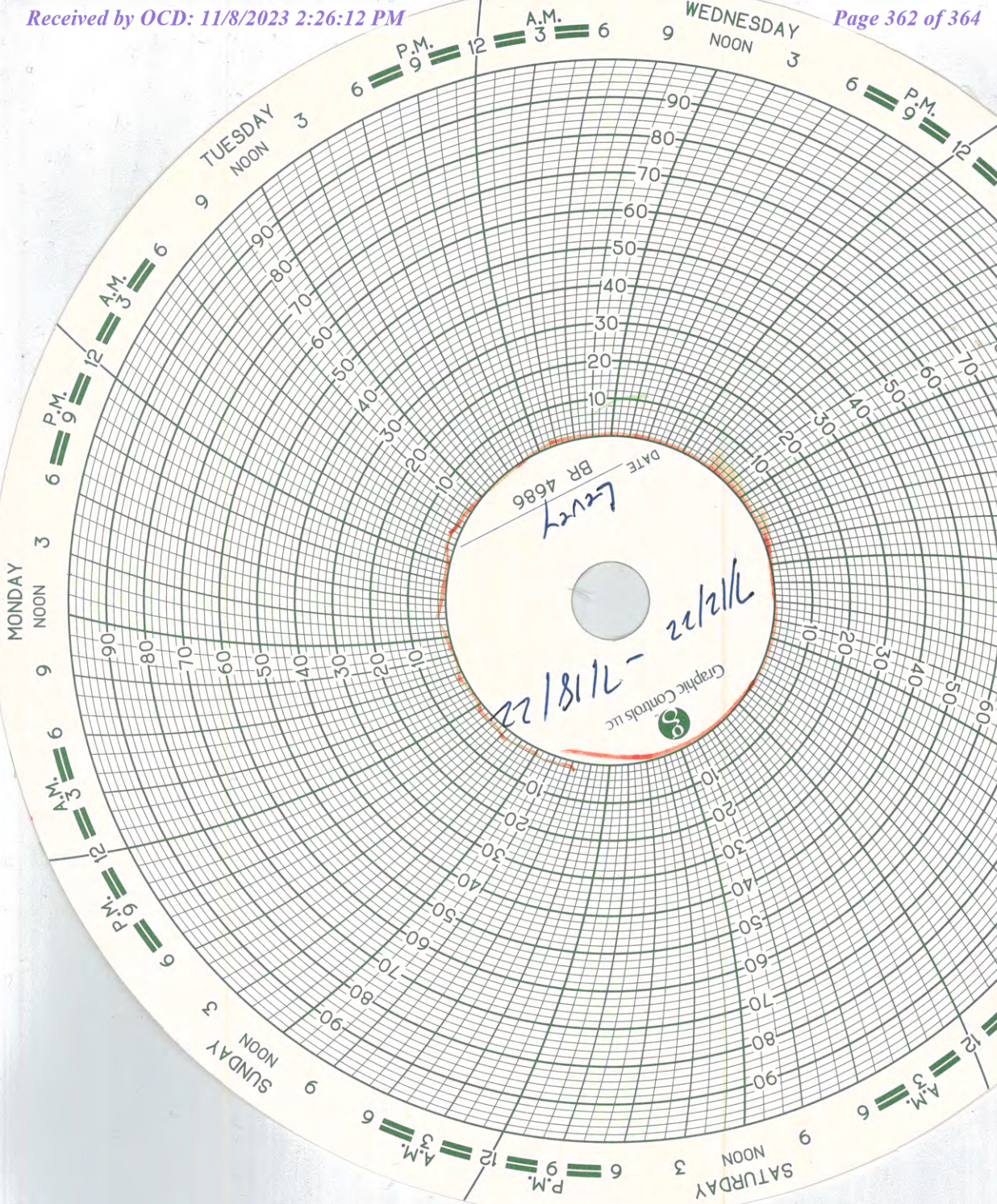


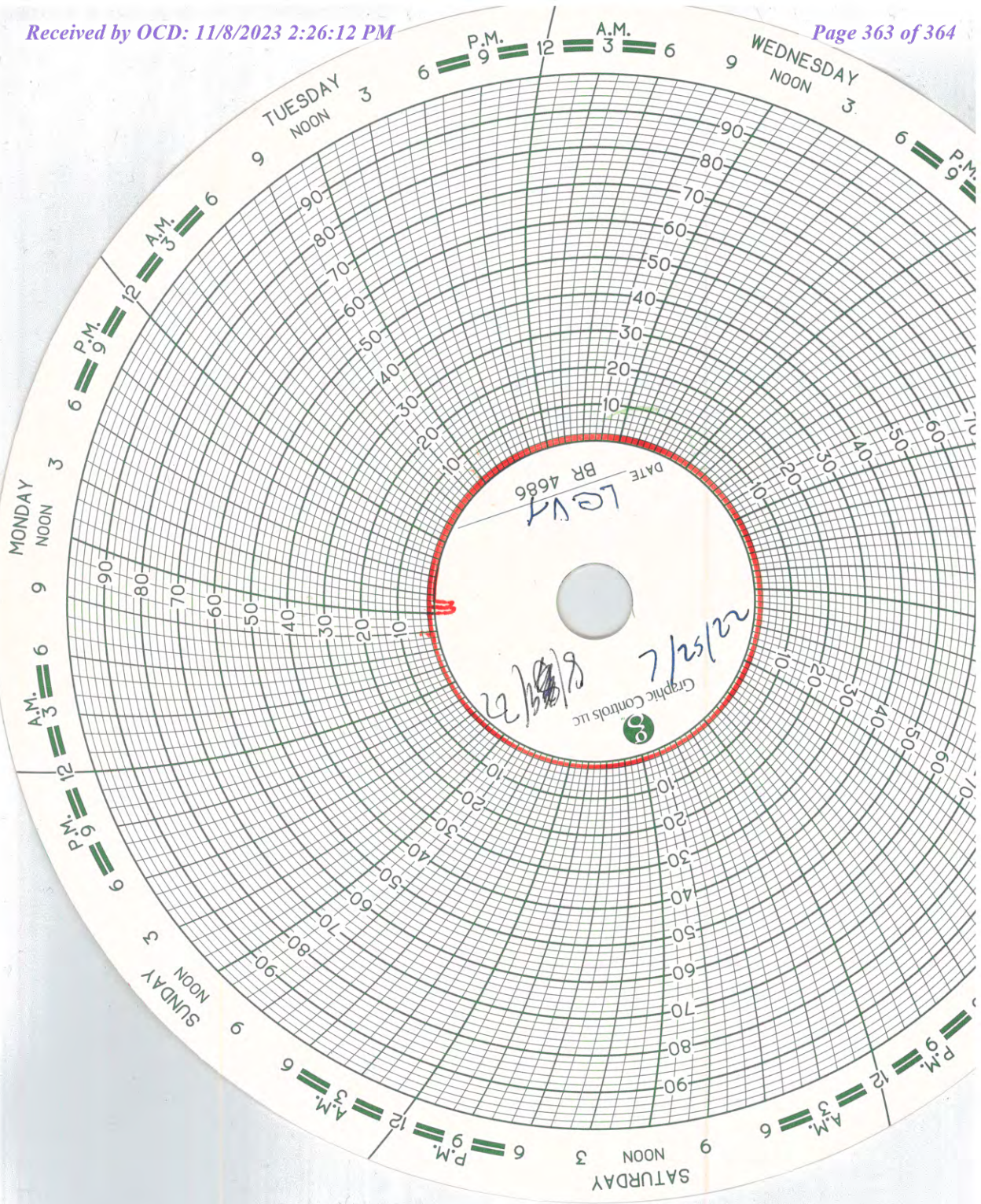
APPENDIX D

Levey Well Integrity Test Documentation









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

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

CONDITIONS

Action 284041

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	284041
	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 - JULY 2022 Property: South Hobbs G/SA Unit Unit F EMNRD OCD Order No. R-4934-F, Case No. 14981	3/20/2024